SONY

3-297-703-12(1)

LCD Digital Color TV

Operating Instructions

KDL-19M4000

Model:
KDL-19M4000/B U2
Serial:

BRAVIA

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Owner's Record

The model and serial numbers are located at the rear of the TV. Record these numbers in the spaces provided below. Refer to them whenever you call upon your Sony dealer regarding this TV.

Model Name

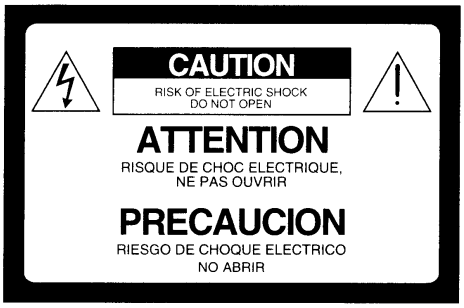
_____

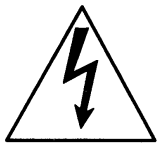
Serial No.

_____

WARNING

To reduce the risk of fire or electric shock, do not expose this TV to rain or moisture.



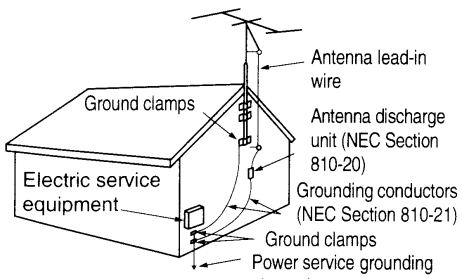


This symbol is intended to alert the user to the presence of uninsulated "dangerous voltage" within the TV's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

This symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the TV.

The TV shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on the TV.

Antenna grounding according to the National Electrical Code, ANSI/NFPA 70


Antenna lead-in wire
Ground clamps
Antenna discharge unit (NEC Section 810-20)
Electric service equipment
Grounding conductors (NEC Section 810-21)
Ground clamps
Power service grounding electrode system (NEC Art 250 Part H)

NEC: National Electrical Code

CAUTION

To prevent electric shock, do not use this polarized AC plug with an extension cord, receptacle or other outlet unless the blades can be fully inserted to prevent blade exposure.

Declaration of Conformity

Trade Name: SONY
Model: KDL-19M4000
Responsible Party: Sony Electronics Inc.
Address: 16530 Via Esprillo,
San Diego, CA 92127 U.S.A.
Telephone Number: 858-942-2230

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

NOTIFICATION

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- ☐ Reorient or relocate the receiving antenna.
- ☐ Increase the separation between the equipment and receiver.
- ☐ Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- ☐ Consult the dealer or an experienced radio/TV technician for help.

Pursuant to FCC regulations, you are cautioned that any changes or modifications not expressly approved in this manual could void your authority to operate this equipment.

The shielded interface cable recommended in this manual must be used with this equipment in order to comply with the limits for a digital device pursuant to Subpart B of Part 15 of FCC Rules.

For Customers in Canada

This Class B digital apparatus complies with Canadian ICES-003.

Safety

- ☐ Operate the TV only on 120-240 V AC.
- ☐ Use the AC power cord specified by Sony and suitable for the voltage where you use it.
- ☐ The plug is designed, for safety purposes, to fit into the wall outlet only one way. If you are unable to insert the plug fully into the outlet, contact your dealer.
- ☐ If any liquid or solid object should fall inside the cabinet, unplug the TV immediately and have it checked by qualified service personnel before operating it further.
- ☐ If you will not be using the TV for several days, disconnect the power by pulling the plug itself. Never pull on the cord.
- ☐ For details concerning safety precautions, see "Important Safety Instructions" on page 3.

Installing

- ☐ The TV should be installed near an easily accessible power outlet.
- ☐ To prevent internal heat buildup, do not block the ventilation openings.
- ☐ Do not install the TV in a hot or humid place, or in a place subject to excessive dust or mechanical vibration.
- ☐ Avoid operating the TV at temperatures below 41°F (5°C).
- ☐ If the TV is transported directly from a cold to a warm location, or if the room temperature changes suddenly, the picture may be blurred or show poor color due to moisture condensation. In this case, please wait a few hours to let the moisture evaporate before turning on the TV.
- ☐ To obtain the best picture, do not expose the screen to direct illumination or direct sunlight. It is recommended to use spot lighting directed down from the ceiling or to cover the windows that face the screen with opaque drapery. It is desirable to install the TV in a room where the floor and walls are not of a reflective material.

CAUTION

Use the following Sony TVs only with the following WALL-MOUNT BRACKET.

	Sony Appliance Model No.
	KDL-19M4000
Sony Wall-Mount Bracket Model No.	SU-WL100

Use with other WALL-MOUNT BRACKET may cause instability and possibly result in injury.

To Customers

Sufficient expertise is required for installing the specified TV. Be sure to subcontract the installation to Sony dealer or licensed contractors and pay adequate attention to safety during the installation.

Note

This television includes a QAM demodulator which should allow you to receive unscrambled digital cable television programming via subscription service to a cable service provider. Availability of digital cable television programming in your area depends on the type of programming and signal provided by your cable service provider.

Trademark Information

Macintosh is a trademark of Apple Inc., registered in the U.S. and other countries.

HDMI, the HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC.

Manufactured under license from Dolby Laboratories. "Dolby" and the double-D symbol are trademarks of Dolby Laboratories.

Blu-ray Disc is a trademark.

"BRAVIA", BRAVIA and ▣ are trademarks or registered trademarks of Sony Corporation.

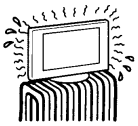
ENERGY STAR

HDMI

DOLBY DIGITAL

Important Safety Instructions

1) Read these instructions.
2) Keep these instructions.
3) Heed all warnings.
4) Follow all instructions.
5) Do not use this apparatus near water.
6) Clean only with dry cloth.
7) Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8) Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.



9) Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10) Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11) Only use attachments/accessories specified by the manufacturer.
12) Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.

13) Unplug this apparatus during lightning storms or when unused for long periods of time.
14) Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

(Continued)

MOISTURE

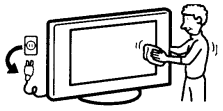
To reduce the risk of fire or electric shock, do not expose this TV to rain or moisture.

- ☐ The TV must never be exposed to dripping, splashing, or spilling liquids of any kind.
- ☐ Do not place liquid filled objects such as a vase or potted plant on the TV.
- ☐ Do not use a power line operated TV set near water; for example, near a bathtub, washbowl, kitchen sink, laundry tub, wet basement or near a swimming pool, etc.

CLEANING

When cleaning, be sure to unplug the power cord to avoid any chance of electric shock.

- ☐ Clean the cabinet of the TV with a dry soft cloth.

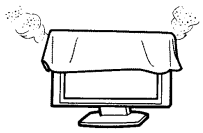


- ☐ Wipe the LCD screen gently with a soft cloth.
- ☐ Stubborn stains may be removed with a cloth slightly moistened with a solution of mild soap and warm water.
- ☐ If using a chemically pretreated cloth, please follow the instruction provided on the package.
- ☐ Never use strong solvents such as a thinner, alcohol or benzine for cleaning.
- ☐ Periodic vacuuming of the ventilation openings is recommended to ensure to proper ventilation.

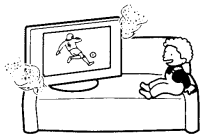
VENTILATION

The ventilation openings in the TV are necessary to ensure reliable operation of the TV and to protect it from overheating.

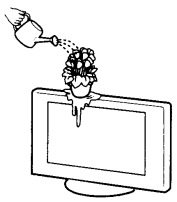
- ☐ Do not block or cover the ventilation openings with cloth or other materials.



- ☐ Never place the TV on a bed, sofa, rug or other similar surface where ventilation openings may be blocked.



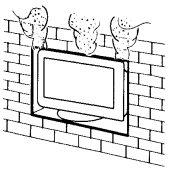
- ☐ Unless proper ventilation is provided, the TV may accumulate dust and cause damage.
- ☐ Never allow liquid or solid objects to fall into the ventilation openings.



- ☐ If any liquid or solid object falls inside the TV unplug the TV immediately and have it checked by qualified service personnel before operating it further.
- ☐ Never push objects of any kind into the TV through the ventilation openings as they may come in contact with dangerous voltage points or short out parts that could result in a fire or an electric shock.

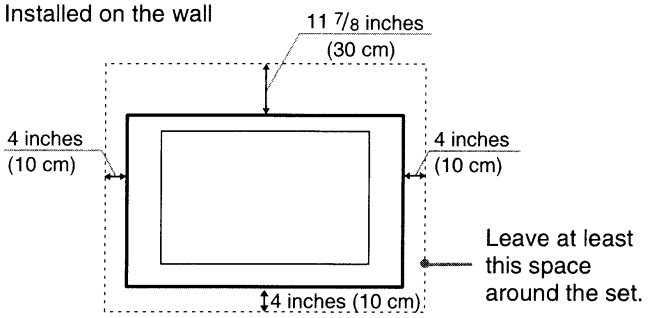
Allow adequate space around the TV set to ensure proper air circulation.

- ☐ Never place the TV in a confined space, such as a bookcase or built-in cabinet, unless proper ventilation is provided.

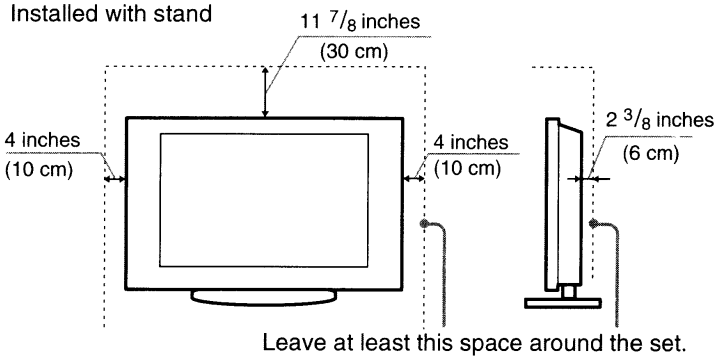


Leave some space around the TV set as shown below. Otherwise, air-circulation may be inadequate and cause overheating, which may cause a fire or damage to the TV set.

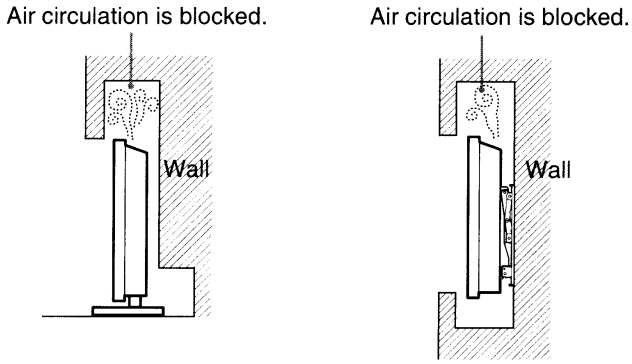
Installed on the wall



Installed with stand



Never install the TV set as follows:

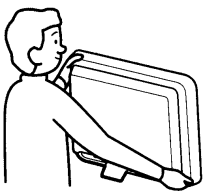


CARRYING THE TV

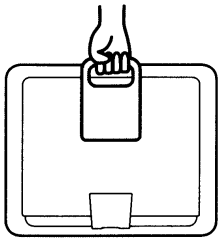
Carry the TV in the specified manner

To avoid dropping the TV and causing serious injury, be sure to follow these guidelines:

- ☐ Before carrying the TV, disconnect all cables.
- ☐ When you carry the TV without handle, place your hand as illustrated and hold it securely. Do not put stress on the LCD panel.
- ☐ When carrying the TV, do not subject it to shocks or vibration, or excessive force.



Without handle

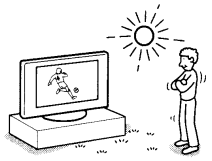


With handle

INSTALLATION

The TV should be installed near an easily accessible AC power outlet.

- ☐ Do not install the TV face up or down, upside down or on its side.
- ☐ Do not install the TV in hot, oily, humid, or excessively dusty places.
- ☐ Do not install the TV in places subject to extreme temperature, such as in direct sunlight, near a radiator or a heating vent. The TV may overheat in such conditions and can cause deformation of the enclosure and/or cause TV malfunction.



- ☐ Do not install the TV in a place exposed to direct air conditioning; moisture may condense inside and may cause TV malfunction.

- ☐ Do not install the TV where it may be exposed to mechanical vibration.
- ☐ Do not install the TV where insects may enter.
- ☐ Do not install the TV in a location where it may protrude, such as on or behind a pillar, or any place you might bump your head or receive bodily injury.
- ☐ To prevent fire keep flammable objects or open flame (e.g. candles) away from the TV.
- ☐ Do not place optional equipment on top of the TV.

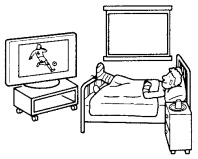
Prevent the TV from toppling over

Take measures to prevent the TV from toppling over and causing injury, damage to the TV and property.

- ☐ Secure the TV to a wall and/or stand.
- ☐ Never install the TV on unstable and/or uneven surfaces.
- ☐ Do not allow children to climb on or play with furniture and TV sets.
- ☐ Do not install the TV on furniture that can easily be used as steps, such as a chest of drawers.
- ☐ Care should be taken to install the TV where it cannot be pushed, pulled over, or knocked down.
- ☐ Care should be taken to route all AC power cords and connecting cables so that they cannot be pulled or grabbed by curious children.

Medical institutions

Do not place this TV in a place where medical equipment is in use. It may cause a medical equipment malfunction.

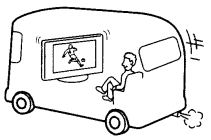


Outdoor use

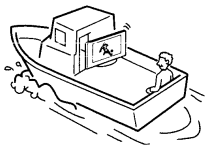
Do not install this TV outdoors. The TV should not be exposed to rain or direct sunlight in order to avoid damage and possible fire or electric shock.

Do not install this TV in a vehicle, ship or other vessel

- ☐ Excessive bumping motion of a moving vehicle or continuous swaying motion on a boat may cause the TV to fall down and cause injury.



- ☐ Exposing the TV to seawater may cause a fire, electric shock or damage to your TV.

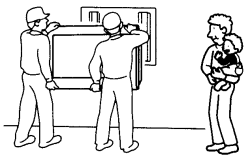


Magnetic influence

- ☐ This TV contains a strong magnet in the speaker unit that generates a magnetic field. Keep any items susceptible to magnetic fields away from the speaker.
- ☐ Electro-magnetic radiation emitted from optional equipment installed too closed to the TV may cause picture distortion and/or noisy sound.

Wall-mount use

- ☐ Wall-mount installation requires the use of a Wall-Mount Bracket. When installing or removing the TV and the Wall-Mount Bracket, be sure to use qualified contractors. If not properly secured during installation or removal from the Wall-Mount Bracket, the TV may fall and cause serious injury.

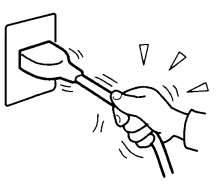


- ☐ Be sure to follow the installation guide supplied with the Wall-Mount Bracket when installing the TV.
- ☐ Be sure to attach the brackets with the specified parts supplied with the Wall-Mount Bracket.
- ☐ Do not hang the TV from the ceiling. It may fall and cause serious injury.
- ☐ Do not hang anything on the TV.
- ☐ Do not allow children to climb on the TV.

AC POWER CORD

- ☐ Do not touch the AC power cord and its plug with wet hand, it may cause electric shock.

- ☐ When disconnecting the AC power cord, grasp the plug and disconnect from the wall outlet first. Do not pull by the cord.



(Continued)

☐ Keep the power cord away from heat sources.

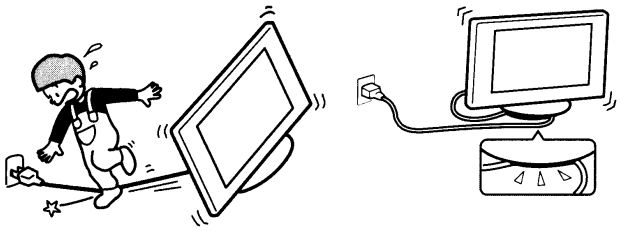
A TV set with a three-wire grounding type AC power cord plug must be connected to an AC power outlet with a protective earthing connection.

☐ Do not convert or damage the AC power cord.

☐ Consult your electrician to have the outlet changed to suit your TV.

Subjecting the AC power cord to wear and/or abuse can damage the AC power cord and your TV.

☐ Do not place the TV where the power cord can be easily pinched, bent, twisted, or catch your feet.



☐ Do not allow anything to rest on or roll over the cord.

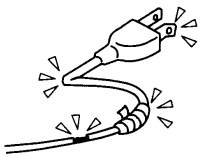
☐ Before connecting cables, be sure to unplug the AC power cord for your safety.

☐ Do not move the TV with the AC power cord (or other cables such as audio and video) connected.

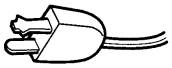
☐ Use only an original Sony AC power cord with your TV; no brand substitution is allowed.

☐ Do not use AC power cord supplied with the TV with any other equipment.

☐ Never use a damaged AC power cord. A damaged AC power cord can cause a short-circuit, which may result in a fire or electric shock.

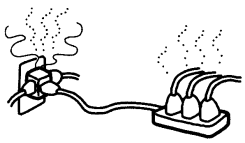


Do not use a damaged or poorly fitting AC power outlet as your TV's power source.



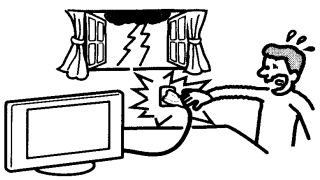
☐ Insert the plug fully into the outlet. If it is loose, it may cause arcing and result in a fire.

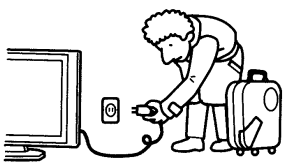
☐ Do not overload the same AC power outlet.



Unplugging the AC power cord from the wall outlet will completely remove power from the TV.

☐ During lightning storms or when the TV is left unattended and unused for extended periods of time, the AC power cord should be unplugged from the wall outlet. This will avoid possible damage to your TV. Also unplug the antenna to prevent damage to the TV.

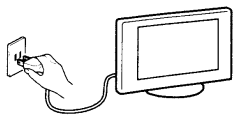




☐ For energy conservation and safety reasons, practice unplugging the AC power cord from the AC power outlet.

Clean the AC power plug

Unplug the AC power plug and clean it occasionally to avoid dust from accumulating. While cleaning, look for signs of damage. A damaged AC power cord should never be used.



ACCESSORIES

Keep small accessories out of children's reach. Use only the specified accessories with this TV.

Volume Adjustment

☐ When using headphones, adjust the volume to avoid excessive audio levels from causing possible hearing loss.

BATTERIES

Your remote control batteries are consumables.

☐ To preserve our environment, dispose of used batteries according to your local laws or regulations.

☐ Do not dispose of batteries in a fire.

☐ Do not short-circuit, disassemble or overheat the batteries.

☐ Replace only with the same or equivalent type of batteries. Using incorrect replacement batteries can lead to an explosion.

LCD SCREEN

☐ Although the LCD screen is made with high-precision technology and has effective pixels of 99.99% or more, black dots or bright points of light (red, blue, or green) may appear constantly on the LCD screen. This is a structural property of the LCD panel and is not a malfunction.

☐ The LCD screen is made with high-precision technology and to achieve a high level of performance and picture quality, this TV's backlight setting is set to maximize the brightness of the TV. However, uneven brightness may be observed when the LCD TV is viewed in a dark ambient without an input source or blank screen. This condition is normal and not a malfunction of the TV. Changing the Picture mode, Backlight setting, enabling the Light Sensor, or turning on the Power Management will improve this condition.

☐ To avoid damaging the LCD panel, do not expose the LCD screen to direct sunlight.

☐ Do not push or scratch the LCD screen, or place objects on top of the TV. The images may be uneven or the LCD panel may be damaged.

☐ If the TV is used in a cold place, smear may occur in the picture or the picture may become dark. This does not indicate a failure. These phenomena improve as the temperature rises.

☐ Ghosting may occur when still pictures are displayed continuously. It should disappear after a few moments.

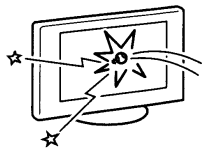
☐ The LCD screen and enclosure get warm when the TV is in use. This is not a malfunction.

☐ Avoid spraying insect repellent with volatile material on the LCD screen.

☐ Avoid prolonged contact with rubber or plastic material to the LCD screen.

Broken screen panel

Do not throw anything at the TV as the impact can cause the LCD screen glass to crack, break or scatter.



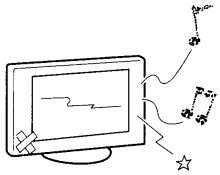
☐ If damage occurs to the LCD panel, small traces of liquid crystal sandwiched between the glass may be found on scattered broken glass.

☐ Do not touch the broken glass with bare hands. As with any broken glass pieces, avoid skin contact and exposure to your eyes or mouth. Avoid direct contact with liquid or damp surfaces of the glass as these may have an adverse effect on some people. The contacted area should be rinsed thoroughly with water. If conditions persist, see your doctor.

☐ If the surface of the TV cracks, do not touch the TV until you have unplugged the AC power cord. Otherwise electric shock may result.

SERVICING

Do not use the TV if you suspect the TV is damaged or if the TV is damaged.

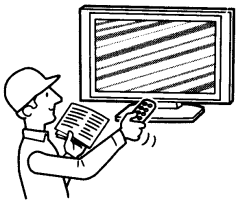


☐ Do not attempt to service the TV yourself since opening the cabinet may expose you to dangerous voltage levels or other hazards. Refer all servicing to qualified service personnel.

☐ If replacement parts are required, acquire a written certification from the service technician which states that adequate replacement parts with the same or similar characteristics as the original parts have been used. Unauthorized substitutions may result in a fire, an electric shock or other hazards.

Safety check

☐ Upon completion of any TV servicing or repair, ask the service technician to perform routine safety checks as specified by Sony and to certify that the TV is safe to operate. Have a qualified service technician dispose of the TV if it is not safe to operate.



For customers in the United States

Lamp in this product contains mercury. Disposal of these materials may be regulated due to environmental considerations. For disposal or recycling information, please contact your local authorities or the Electronics Industries Alliance (www.eiae.org).

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Welcome to the World of BRAVIA®

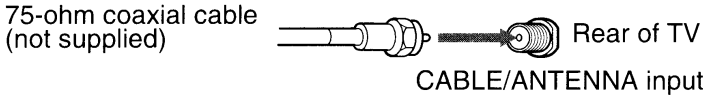
Thank you for purchasing this Sony LCD Digital Color Television. This manual is for model KDL-19M4000. Be sure to check the supplied accessories against the list on page 39.

Connecting the TV

To display clear crisp pictures, you must connect your TV correctly and select the correct Wide Mode to display the picture in the correct aspect ratio (see "Changing the Wide Screen Mode" on page 21). It is strongly recommended to connect the antenna/cable input using the 75-ohm coaxial cable (not supplied) to receive optimum picture quality signal. A 300-ohm twin lead cable can be easily affected by radio noise and the like, resulting in signal deterioration. If you use a 300-ohm twin lead cable, keep it as far away from the TV as possible.
You can also connect a variety of optional equipment to your TV (see page 14). For multiple equipment connections, please refer to the Quick Setup Guide.

Cable System or VHF/UHF Antenna System

Cable or VHF/UHF (or VHF only) Antenna

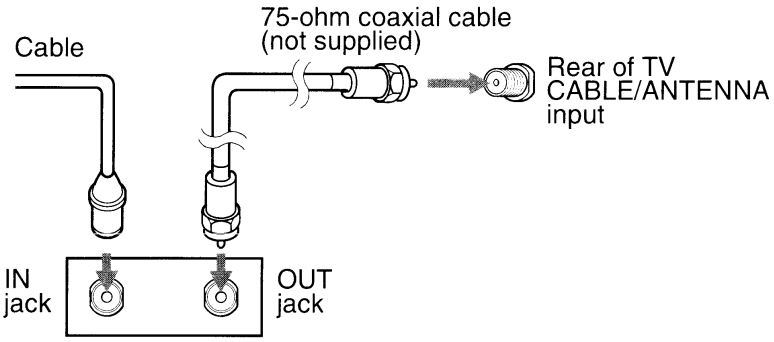


From Cable settings in Channel settings, select Cable On or Cable Off for your type of input signal.

Cable Box/Digital Cable Box

Use this hookup if

- ☐ You subscribe to a cable TV system that uses scrambled or encoded signals requiring a cable box to view all channels, and
- ☐ You do not intend to hook up any other audio or video equipment to your TV.

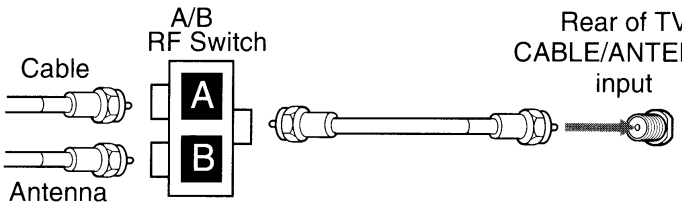


Also, set Cable to On in the Cable settings in Channel settings (see page 29).

To change channels using the cable box, set your TV to channel 3 or 4 depending on the cable box channel output. Auto Program will fix the channel automatically.

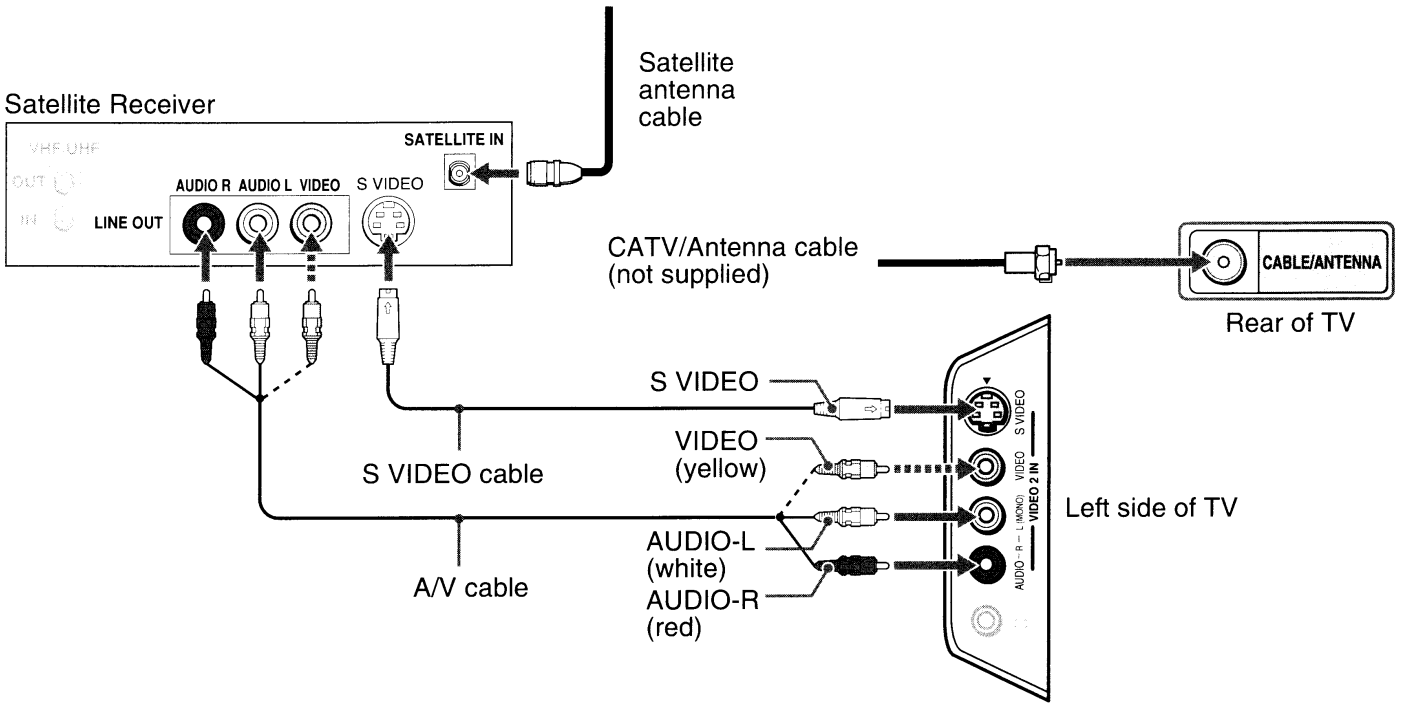
Cable System and VHF/UHF Antenna System

If you want to watch both antenna (over-the-air) and cable broadcast signals, you'll need to use an optional A-B RF switch (not supplied), as shown below.



Use the A-B selector to switch between the over-the-air signals and the cable signals. Then set the Cable setting in the Channel settings to On or Off, as described on page 29.

Satellite Receiver and Cable/Antenna

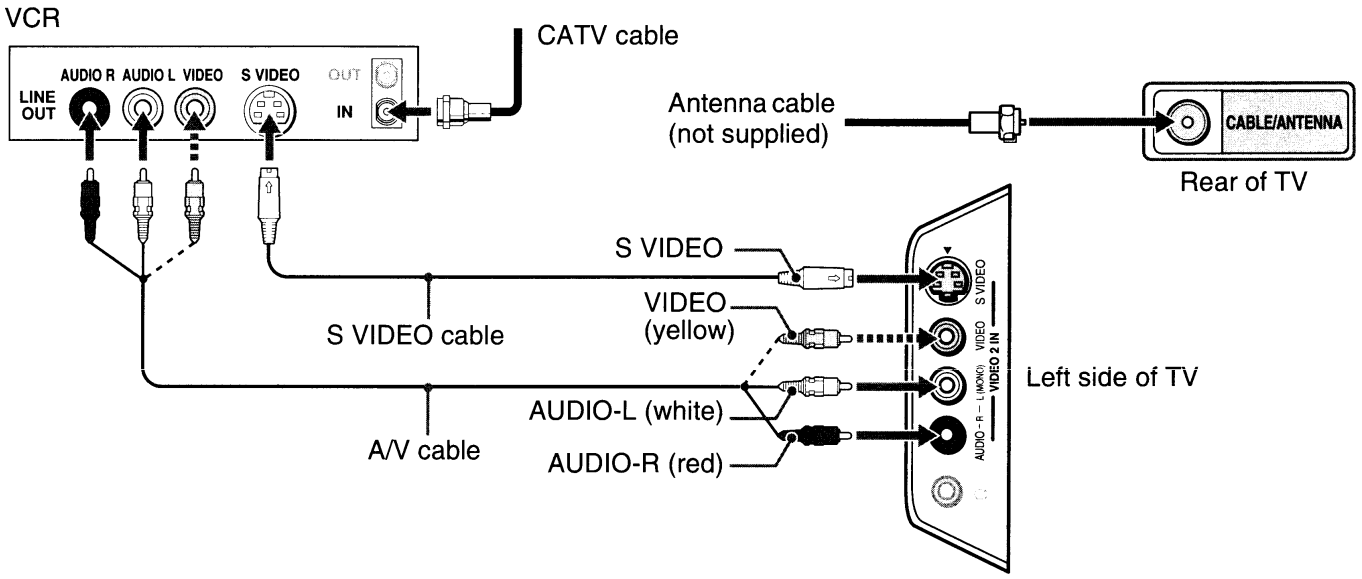


✍ VIDEO 1 IN is also available for a VIDEO cable connection.

✍ If your satellite receiver is not equipped with S VIDEO, use a VIDEO cable (yellow) instead of the S VIDEO cable.

✍ Run the Initial Setup program, as described in "Setting Up the Channel List" on page 19 after completing your connections.

VCR, Cable and Antenna

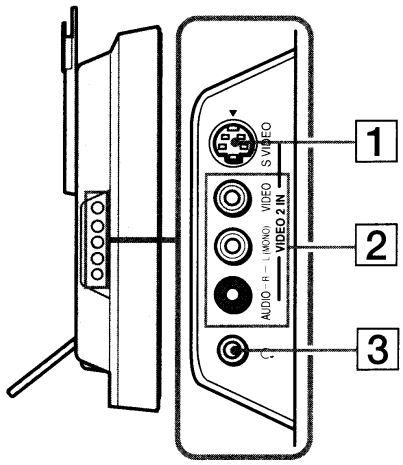


✍ If your VCR is not equipped with S VIDEO, use a VIDEO cable (yellow) instead of the S VIDEO cable.

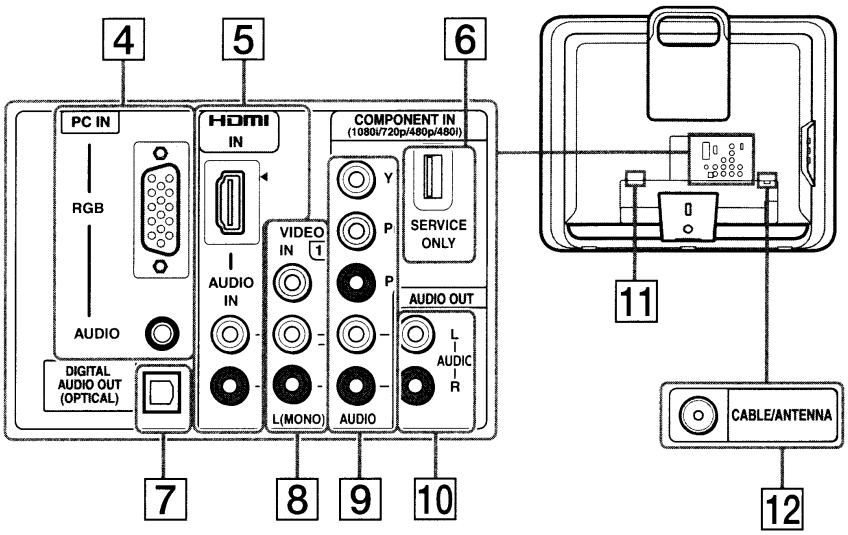
✍ Run the Initial Setup program, as described in "Setting Up the Channel List" on page 19 after completing your connections.

When Connecting to Optional Equipment

Left side



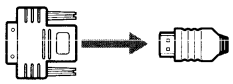
Rear



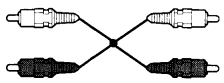
Item	*Description*
1 VIDEO 2 IN S VIDEO	Connects to the S VIDEO output jack on your camcorder or other video equipment that has S VIDEO. Provides better picture quality than composite video (2).
2 VIDEO 2 IN VIDEO/ AUDIO-R-L(MONO)	Connect to the composite video and audio output jacks on your camcorder or other video equipment such as video game equipment. ✍ If you have mono equipment, connect its audio output jack to the TV's L (MONO) audio input jack.
3 Headphones jack	Connects to your headphones. If your headphones do not match the jack, use a suitable plug adapter (not supplied).
4 PC IN (RGB/AUDIO)	Connect to a personal computer's video output connector using HD15-HD15 cable (analog RGB, not supplied). Can also be connected to other Analog RGB devices. See "PC Input Signal Reference Chart" on page 38 for the signals that can be displayed. ✍ For some Apple Macintosh computers, it may be necessary to use an adapter (not supplied). If this is the case, connect the adapter to the computer before connecting the HD15-HD15 cable. ✍ If the picture is noisy, flickering or not clear, adjust the Phase and Pitch of the PC Settings on page 28.

Item	Description
5 HDMI IN HDMI/ AUDIO IN	HDMI (High-Definition Multimedia Interface) provides an uncompressed, all-digital audio/video interface between this TV and any HDMI-equipped audio/video equipment, such as a set-top box, DVD player, and A/V receiver. HDMI supports enhanced, or high-definition video, plus digital audio. If the equipment has a DVI jack and not an HDMI jack, connect the DVI jack to the HDMI IN (with HDMI-to-DVI cable or adapter) jack, and connect the audio jack to the AUDIO IN(L/R) jacks of HDMI IN. (DVI connector is for video signals only.)
6 SERVICE ONLY	This USB port is for service only.
7 DIGITAL AUDIO OUT (OPTICAL)	Connects to the optical audio input of a digital audio equipment that is PCM/Dolby Digital compatible.
8 VIDEO 1 IN VIDEO/ L(MONO)-AUDIO-R	Connect to the composite video and audio output jacks on your A/V equipment such as a VCR or other video equipment. A second composite video and audio (VIDEO 2) is located on the left side panel of the TV.
9 COMPONENT IN (1080i/720p/ 480p/480i)/ L-AUDIO-R	Connect to your DVD player's or digital set-top box's component video (YP_BP_R) and audio (L/R) jacks. Component video provides better picture quality than the S VIDEO (1) or the composite video (2/8) connections.
10 AUDIO OUT L-AUDIO-R	Connect to the left and right audio input jacks of your audio or video equipment. You can use these outputs to listen to your TV's audio through your stereo system.
11 AC IN	Connects the supplied AC power cord.
12 CABLE/ ANTENNA	RF input that connects to your Cable or VHF/UHF antenna.

HDMI-to-DVI cable



HDMI adapter



Audio cable

✍ Do not connect a PC to the TV's HDMI input. Use the PC IN (RGB IN) input instead when connecting a PC.

* Manufactured under license from Dolby Laboratories. "Dolby" and the double-D symbol are trademarks of Dolby Laboratories.

✍ VIDEO 2 IN is equipped with S VIDEO. S VIDEO is selected primarily when both composite video jack and S VIDEO jack are connected.

✍ Component video (YP_BP_R) connection is necessary to view 480i, 480p, 720p, and 1080i formats. Note that this TV displays all format types of picture in a resolution of 1,440 dots × 900 lines.

✍ HDMI connection is necessary to view 480i, 480p, 720p, 1080i and 1080p formats. Note that this TV displays all format types of picture in a resolution of 1,440 dots × 900 lines.

Securing the TV

Sony strongly recommends taking measures to prevent the TV from toppling over; as unsecured TVs may topple and result in property damage, serious bodily injury or even death.

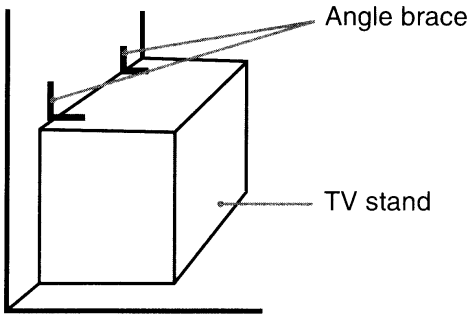
Prevent the TV from Toppling

- ☐ Secure the TV to a wall and/or stand.
- ☐ Do not allow children to play or climb on furniture and TV sets.
- ☐ Avoid placing or hanging items on the TV.
- ☐ Never install the TV on:
  - slippery, unstable and/or uneven surfaces.
  - furniture that can easily be used as steps, such as a chest of drawers.
- ☐ Install the TV where it cannot be pulled, pushed, or knocked over.
- ☐ Route all AC power cords and connecting cables so that they are not accessible to curious children.

Recommended Measures to Secure the TV

1 Secure the Stand for the TV.

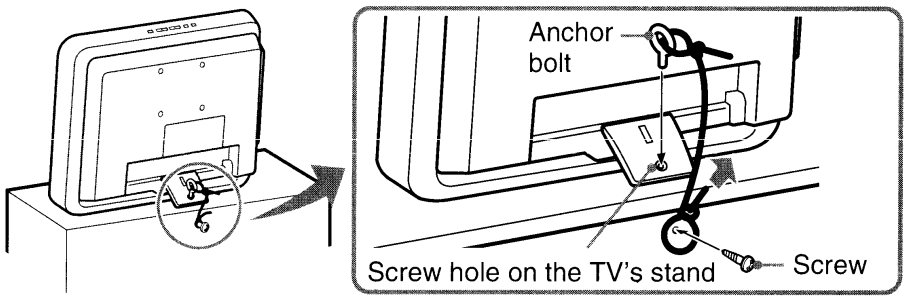
Make sure the TV stand can adequately support the weight of the TV. Use two angle braces (not supplied) to secure the stand.
For each angle brace use the appropriate hardware to:
- attach one side of the angle brace to the wall stud.
- attach the other side to the TV stand.



2 Secure the TV to the Stand.

Use the optional hardware listed below (not supplied):
- M6 × 12-18mm anchor bolt (screwed into the TV's stand).
- A screw or similar (attach it to the TV stand).
- Rope or chain (strong enough to support the weight of the TV). Make sure that there is no excess slack in the rope or chain.

An alternative way to secure the TV is with an optional Sony Support Belt Kit.

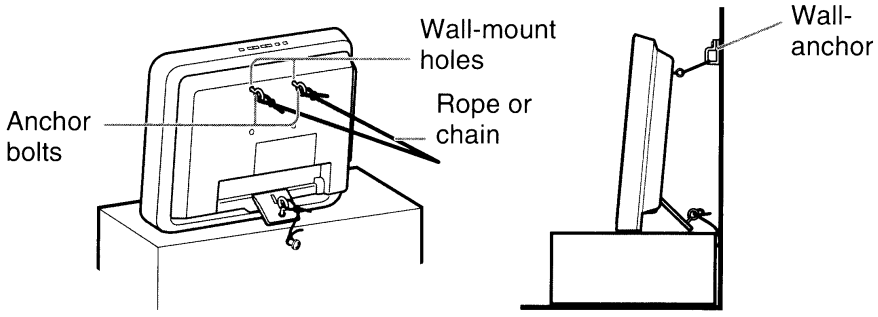


✍ Contact Sony Customer Support to obtain the optional Support Belt Kit by providing your TV model name.

- For United States call: 1(800)488-7669
  or visit: www.sony.com/accessories
- For Canada call: 1-877-899-7669

3 Anchor the TV to the Wall.

Use the hardware listed below (not supplied).
- Two M4 × 12-18mm anchor bolts (screw into the top-most wall-mount holes located on the rear of the TV).
- Rope or chain (attach to one M4 anchor bolt).
- Wall-anchor (attach to the wall stud) strong enough to support the weight of the TV (pass the rope through the wall-anchor, then attach to the other M4 anchor bolt).

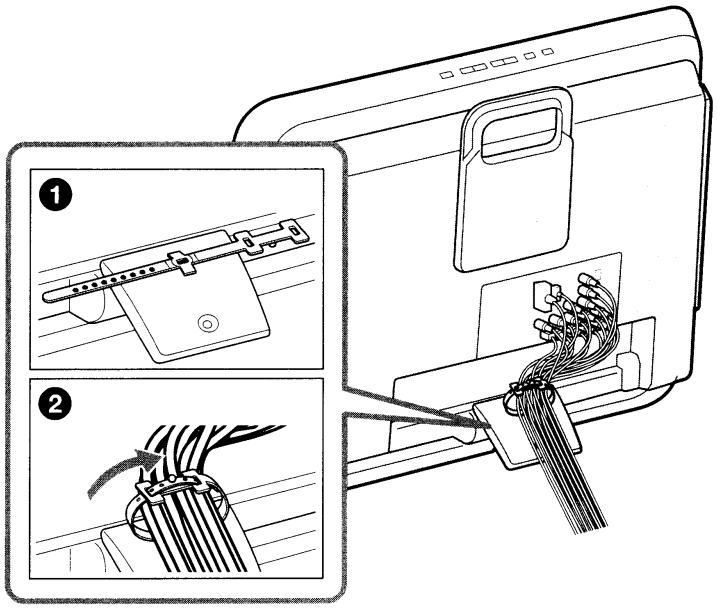


✍ Measure 2 provides minimal protection against the TV toppling over. For further protection, follow all three measures recommended above.

✍ If an electric screwdriver is used, set the torque to tighten at approximately 1.5 N·m {15 kgf·cm}.

Bundling the Connecting Cables

You can bundle the connecting cables as illustrated below.

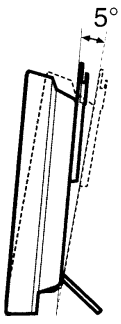


✍ Do not bundle the AC power cord with other connecting cables.

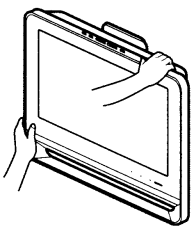
Adjusting the Viewing Angle of the TV

This TV can be adjusted within the angles shown below.

Adjust the angle up and down (tilt)



✍ When adjusting the angle, hold the lower left corner with one hand and the upper right side frame with the other to avoid slipping or tipping the TV. Avoid holding the upper right corner or pressing buttons on the top of the TV.



Setting Up the Channel List - Initial Setup

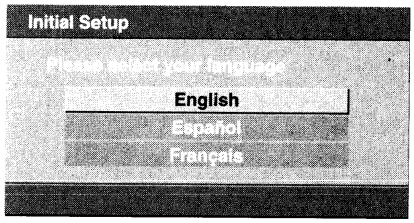
After you finish connecting your TV, you need to run Initial Setup, which automatically sets up available channels. The Initial Setup screen appears when you turn on your TV for the first time. If you do not want to set up the channels at this time, you can do it later by selecting the Auto Program option in the Channel settings (see page 29).

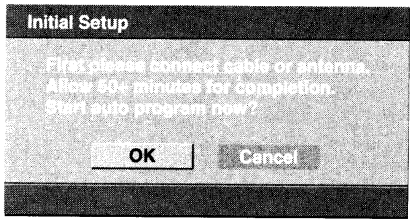
1 Press POWER ◯ to turn on the TV.

The Initial Setup screen appears.

2 Press ↑/↓ to highlight the desired language.

3 The message "First please connect cable or antenna. Allow 50+ minutes for completion." and "Start auto program now?" appears, make sure you already connected Cable or Antenna, then select OK to start Auto Program. If you want to start Auto Program later, select Cancel.



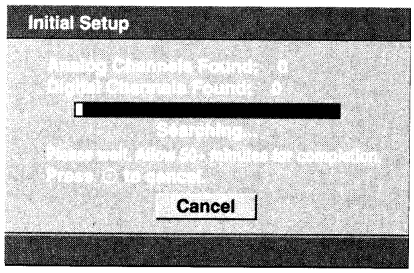


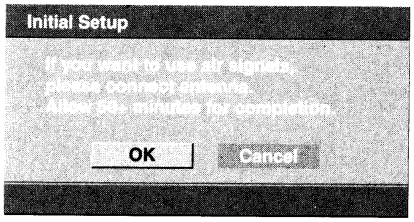
✍ If you have Cable and Antenna available, please connect Cable first.

4 The scanning of channels will start. If you want to stop and run Auto Program later, press Cancel.

5 When Auto Program is complete, press ⊕ to continue.

6 If the Initial Setup programming found cable channels, you will be able to scan antenna channels as well. Connect the antenna using an A-B RF switch (not supplied) and change the switch to antenna then start Auto Program to search antenna channels. If the Initial Setup programming found antenna channels, the Auto Program process will finish. If you want to scan cable channels, you can do it later using the Channel settings.





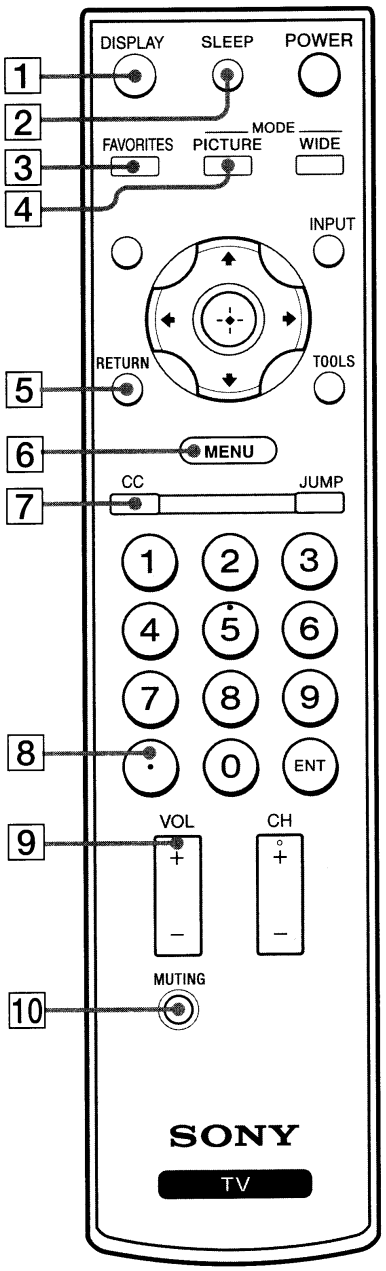
To run Auto Program again at a later time

❑ Use the Auto Program feature as described on page 29.

To display the Picture in your Preferred Aspect Ratio

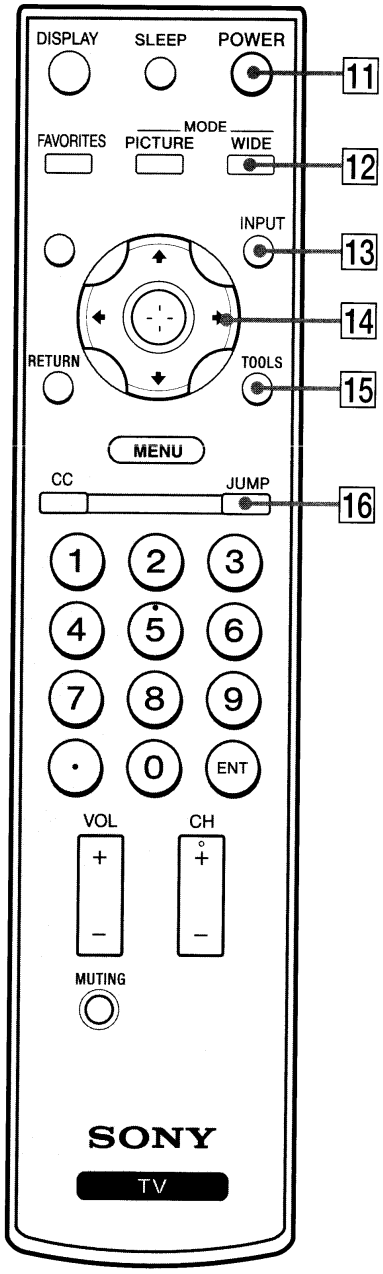
❑ Select the proper Wide Mode as described on pages 21 and 27.

Remote Control



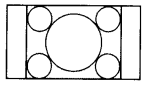
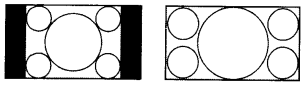
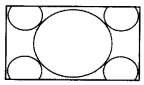
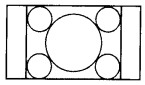
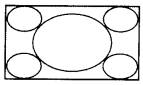
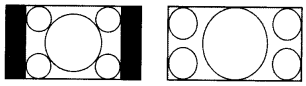
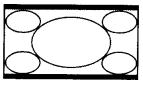
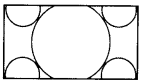
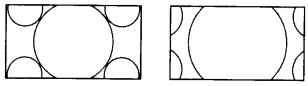
The 5 button and CH + have a tactile dot. Use them as a reference when operating the TV.

Button	Description
1 DISPLAY	Press once to display the current channel number, channel label, and program remaining time. The on screen display (OSD) will turn off after a few seconds.
2 SLEEP	Press repeatedly until the TV displays the time in minutes (Off, 15, 30, 45, 60, 90 or 120) that you want the TV to remain on before shutting off. To cancel Sleep Timer, press SLEEP repeatedly until Off appears.
3 FAVORITES	Press once to display the stored favorite channel list. You can store up to 8 channels and/or external inputs in your Favorites list.
	How to Add to Favorites While tuned to the channel you want to add to the list, press FAVORITES and highlight "Add to Favorites", then press ⊕. ✍ Your Favorites list of TV inputs will be cleared each time you run Auto Program (see pages 19 and 29 for Auto Program).
4 PICTURE	Press repeatedly to cycle through the available picture modes: Vivid, Standard, Custom. The picture modes can be also accessed in the Picture settings. For details, see "Using the Picture Settings" on page 25.
5 RETURN	Press to go back to the previous screen when displaying MENU items and settings.
6 MENU	Press to display the MENU with TV functions and settings. See "Overview of MENU" on page 25.
7 CC	Press to turn on and off Closed Captions (CC). To change or customize CC Display, see page 34.
8 ⊙	Use with 0-9 and ENT buttons to select digital channels. For example, to enter 2.1, press ②, ⊙, ① and ENT.
9 VOL +/–	Press to adjust the volume.
10 MUTING	Press to mute the sound. Press again or press VOL + to restore the sound.



Button	Description
11 POWER	Press to turn on and off the TV.
12 WIDE	Press repeatedly to step through the Wide Mode settings: Wide Zoom, Normal, Full, 16:9 and Zoom. The Wide Mode settings can be also accessed in the Screen settings. See page 27.

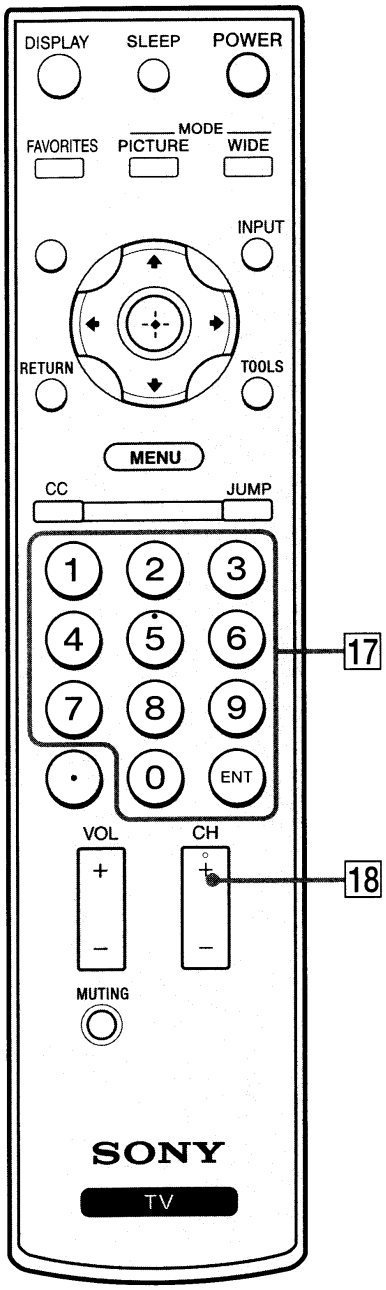
Changing the Wide Screen Mode (see page 27 for details)

4:3 Original source Standard definition source	16:9 Original source High definition source
	
Wide Zoom 	Wide Zoom This mode is not available
Normal 	Normal This mode is not available
Full 	Full 
16:9 	16:9
Zoom 	Zoom 

✍ Wide Zoom and Normal are not available when you are watching 720p or 1080i source from component video input or 720p, 1080i or 1080p source from HDMI input.

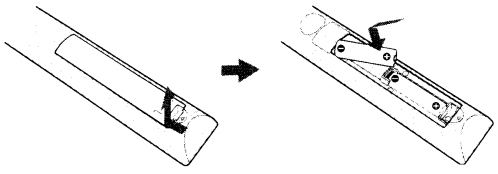
13 INPUT	Press to display the list of Inputs. Press repeatedly to toggle through the inputs.
	✍ Inputs can be changed by pressing ↑/↓ and ⊕ while the list of Inputs is displayed.
	✍ See page 33 on setting up the Inputs labels, including the Skip feature.
14 ↑/↓/←/→ ⊕	Press ↑/↓/←/→ to move the on-screen cursor. Press ⊕ to select/confirm an item.
15 TOOLS	Press to display the Tools Menu that is associated with your current input: Analog TV, Digital TV or external inputs (see pages 25, 26, 30 and 34).
16 JUMP	Press to jump back and forth between two channels. The TV alternates between the current channel and the last channel that was selected.

(Continued)

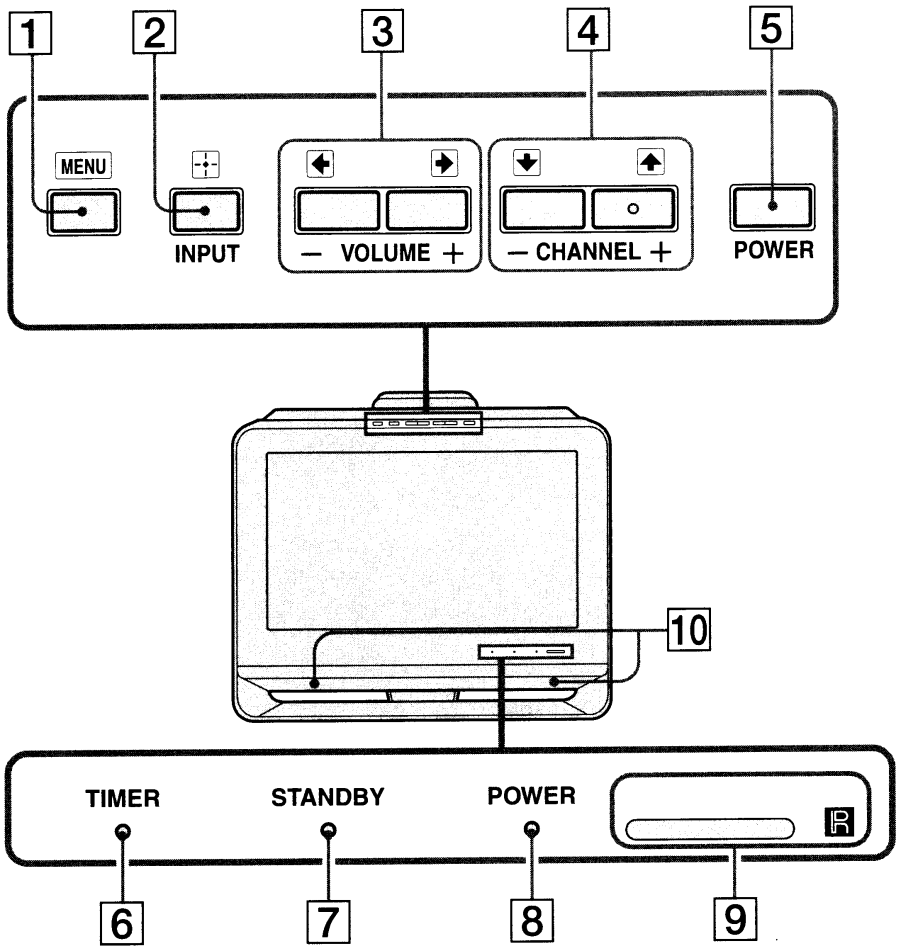


Button	Description
17 0 - 9 ENT	Press 0 - 9 to select a channel; the channel changes after two seconds. Press ENT to change channels immediately.
18 CH +/–	Press to scan through channels. To scan quickly through channels, press and hold down either +/–.

✍ Insert two size AA batteries (supplied) by matching the ⊕ and ⊖ on the batteries to the diagram inside the remote control's battery compartment.



TV Controls



Item	Description
1 MENU	Press to display MENU with TV functions and settings (see "Overview of MENU" on page 25).
2 -✦- INPUT	Press to display the list of Inputs. Press repeatedly to toggle through the inputs. ✍ Inputs can be changed by pressing ↑/↓ and ⊕ while the list of Inputs is displayed. ✍ See page 33 on setting up the Label Video Inputs, including the Skip feature. In the MENU screen, this button serves as confirming the selection or setting.
3 ←——→ – VOLUME +	Press to adjust the volume. In the MENU screen, these buttons serve as left/right buttons.
4 ↓——↑ – CHANNEL +	Press to scan through channels. To scan quickly through channels, press and hold down either –/+. In the MENU screen, these buttons serve as up/down buttons.
5 POWER	Press to turn on and off the TV.
6 TIMER LED	Lights up in orange when the timer is set. For details, see page 33.
7 STANDBY LED	Lights up in red when your TV is in PC power saving mode. If the LED blinks in red continuously, this may indicate the display unit needs servicing (see contacting Sony information of the back cover).
8 POWER LED	Lights up in green when the TV is turned on.

(Continued)

Item	*Description*
9 (IR) Infrared Receiver	Receives IR signals from the remote control. Do not put anything near the sensor, as its function may be affected.
10 Speaker	Outputs audio signal.

✍ The CHANNEL + button has a tactile dot. Use it as a reference when operating the TV.

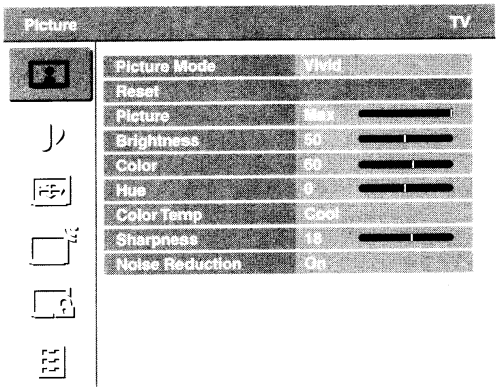
✍ Make sure that the TV is completely switched off before unplugging the power cord.

Using the Menus

Overview of MENU

MENU provides one button access for controlling your TV. It enables you to perform a variety of tasks intuitively with a control panel on the screen rather than a variety of remote control button presses.

Using the Picture Settings

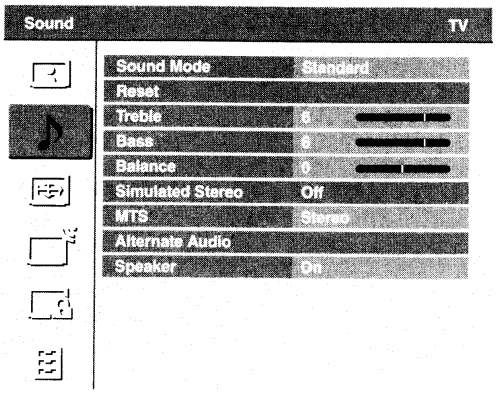


Option	Description	
Picture Mode	Vivid	Select for enhanced picture contrast and sharpness.
Customized picture viewing	Standard	Select for standard picture settings. Recommended for home entertainment.
	Custom	Allows you to store your preferred settings.

✍ You can also access to Picture Mode by pressing TOOLS button on the remote control.

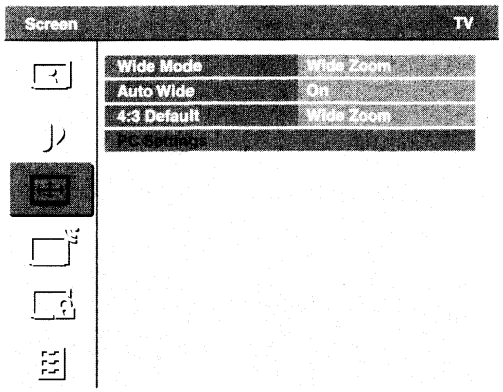
Reset	Resets the current Picture Mode setting to the default values.	
Picture	Adjust to increase or decrease picture contrast.	
Brightness	Adjust to brighten or darken the picture.	
Color	Adjust to increase or decrease color intensity.	
Hue	Adjust to increase or decrease the green tones.	
Color Temp	Cool	Select to give the white colors a bluish tint.
White adjustment	Neutral	Select to give the white colors a neutral tint.
	Warm	Select to give the white colors a reddish tint.
Sharpness	Adjust to sharpen or soften the picture.	
Noise Reduction	Select to reduce the noise level. Select from On and Off.	

♪ Using the Sound Settings



Option	Description	
Sound Mode *Customized sound listening*	Standard	Standard sound optimized for home use.
	Clear Voice	Suitable for spoken dialog.
✍ You can also access to Sound Mode, MTS and Alternate Audio by pressing TOOLS button on the remote control.		
Reset	Resets the current Sound Mode setting to the default values.	
Treble	Adjust to increase or decrease higher-pitched sounds.	
Bass	Adjust to increase or decrease lower-pitched sounds.	
Balance	Adjust to emphasize left or right speaker balance.	
Simulated Stereo	On	Adds a surround-like effect to mono programs.
	Off	Select for normal stereo or mono reception.
MTS *Enjoy stereo, bilingual and mono programs*	Stereo	Select for stereo reception when viewing a program broadcast in stereo.
	Auto SAP	Select to automatically switch the TV to second audio programs when a signal is received. If no SAP signal is present, the TV remains in Stereo mode.
	Mono	Select for mono reception. Use to reduce noise during weak stereo broadcasts.
	✍ MTS is only available for analog programs.	
Alternate Audio *Digital channels only*	Select among the available options to switch among the alternate audio streams. The program you are tuned to may be broadcast in a different language in the alternate audio streams.	
	✍ Alternate Audio is not available if the program is not broadcast with alternate audio streams.	
Speaker	On	Select to turn on the TV speakers.
	Off	Select to turn off the TV speakers and listen to the TV's sound only through your external audio receiver and speakers.

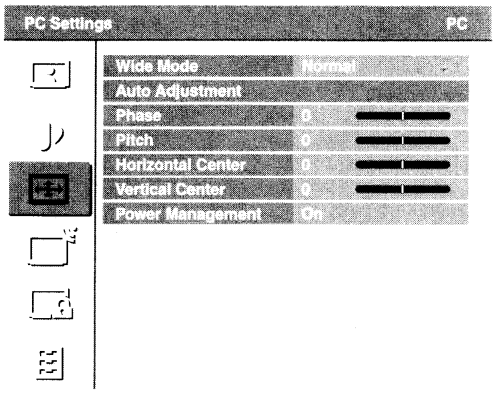
Using the Screen Settings



Option	Description	
Wide Mode	Wide Zoom	Select to fill screen with minimum distortion.
	Normal	Select to display 4:3 picture in original size when the original source is 4:3.
	✍ Normal is not available when you are watching 720p or 1080i sources.	
	Full	Select to enlarge the picture horizontally to fill the screen when the original source is 4:3 (Standard definition source). When the original source is 16:9 (High definition source), select this mode to enlarge the picture vertically to fill the display area.
	16:9	Select to display 16:9 picture in original size.
	Zoom	Select to enlarge the original picture without distorting the aspect ratio.
	✍ Wide Zoom and Normal are not available when you are watching 720p or 1080i source from component video input or 720p, 1080i or 1080p source from HDMI input.	
Auto Wide	On	Select to have the screen automatically change to the screen mode that is best for the current program. If frequent screen changes are disturbing to you, select Off.
	Off	Select to turn off the Auto Wide option. Choose a screen mode from the Wide Mode option.
4:3 Default *Select the default Screen Mode to use for 4:3 sources*	Wide Zoom	Select to enlarge the 4:3 picture to fill the display area, keeping the original image as much as possible.
	Normal	Select to display the 4:3 picture in its original size.
	Full	Select to enlarge the 4:3 picture horizontally only, to fill the display area.
	16:9	Select to enlarge the picture to 16:9 aspect ratio.
	Zoom	Select to enlarge the picture horizontally and vertically to an equal aspect ratio that fills the wide screen.
	Off	Select to continue using the current Wide Mode setting when the channel or input is changed.
	✍ If 4:3 Default is set to anything but Off, the Wide Mode setting changes only for the current channel. When you change channels (or inputs), Wide Mode is automatically replaced with the 4:3 Default setting for 4:3 sources.	

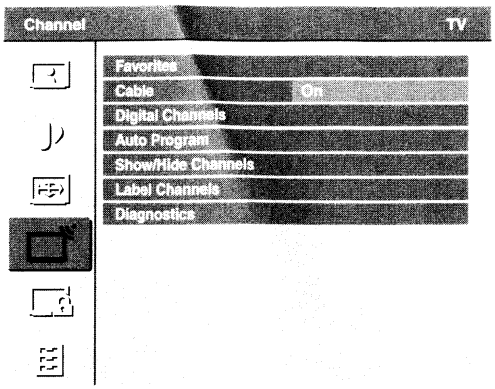
Using the PC Settings

When a PC is connected to the TV, the PC Settings screen appears instead of the Screen settings.



Option	Description	
Wide Mode	Normal	Select to display in the original image size.
	Full1	Select to enlarge the picture to fill the display area, keeping its original aspect ratio.
	Full2	Select to enlarge the picture to fill the display area.
Auto Adjustment	Select to automatically adjust the display position and phase of the picture when the TV receives an input signal from the connected PC. Note that Auto Adjustment may not work well with certain input signals. In such cases, manually adjust the options below.	
Phase	Adjust after Pitch to fine tune overall sharpness.	
Pitch	Adjust uneven sharpness on screen.	
	✍ For the PC Input Signal Reference Chart, see page 38.	
Horizontal Center	Allows you to move the position of the picture left and right. Press ←/→ and press ⊕ to choose a correction.	
Vertical Center	Allows you to move the position of the picture up and down. Press ↑/↓ and press ⊕ to choose a correction.	
Power Management	On	Select to automatically switch to the power saving mode when there is no signal input for 30 seconds.
	Off	Select to turn off Power Management.
	✍ Power Management is not VESA-compliant.	

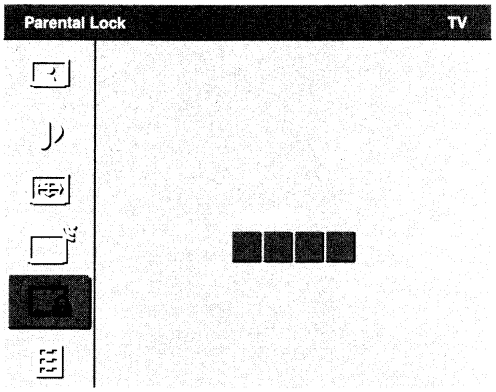
Using the Channel Settings



Option	Description	
Favorites	Select favorite channels and external inputs (see page 20).	
Cable	On	Select if you are receiving cable channels via Cable TV provider.
	Off	Select if you are using an antenna.
	✍ You should run Auto Program after changing the Cable setting.	
Digital Channels	Select to add digital channels.	
Auto Program	Automatically sets up the channel list on the TV for all receivable channels. **1** Select Auto Program. **2** Select OK to start Auto Program. ✍ Running Auto Program will clear Favorites list.	
Show/Hide Channels	Allows you to show or hide channels that appear when you use the CH +/– buttons. **1** Press ↑/↓ to scroll through the channels until you find the channel you want to show or hide. Then press ⊕ to select it. **2** Press ↑/↓ to determine if the channel will be shown or hidden. To show or hide more channels, repeat steps 1-2. ✍ Channels that you set to be hidden can be accessed only with the 0-9 buttons. ✍ You can set channels to be hidden that are automatically set in Auto Program.	
Label Channels	Allows you to assign labels (such as station call letters) to channel numbers. **1** Press ↑/↓ to scroll through the channel numbers. Then press ⊕ to select the channel number that you want to assign a label. **2** Press ↑/↓ to scroll through the label characters (A-Z, 0-9, etc.). Press → to move to the next character. Repeat to add up to 7 characters to the label. Press → to highlight OK and press ⊕ to set. To assign labels to more channels, repeat steps 1-2.	
Diagnostics	Display diagnostics information about the TV. This can be useful in providing information to an authorized technician or repair person.	

Using the Parental Lock Settings

The Parental Lock settings allows you to set up the TV to block programs according to their content and rating levels. Use 0-9 on the remote control to enter a four-digit password. The first time you create a password, confirm the password by entering it again.



Option	Description	
Rating	Off	Turn Parental Lock off. No programs are blocked from viewing.
	Child	Maximum ratings permitted are: U.S.: TV-Y, TV-G, G Canada: C, G, TV-Y
	Youth	Maximum ratings permitted are: U.S.: TV-PG, PG Canada: C8+, PG, 8 ans+, TV-PG
	Young Adult	Maximum ratings permitted are: U.S.: TV-14, PG-13 Canada: 14+, 13 ans+, TV-14
	Custom	Select to set ratings manually. U.S.: See page 31 for details. Canada: See page 32 for details.
Digital Rating *(Available only in U.S.A. where advanced ratings exist)*	Off	Turn Parental Lock off. No programs that contain downloadable ratings are blocked from viewing.
	Custom	Select to block programs based on downloadable ratings.
	Clear All	Select to clear the entire downloadable rating system.
	✍ This action will delete the current Digital Rating menu and the menu will no longer be available until the TV is tuned to a channel that contains downloadable ratings.	
Unrated *(Available only when Country is set to U.S.A.)*	Allow	Allows programs and movies that are broadcast without a rating.
	Block	Blocks all programs and movies that are broadcast without a rating.
	✍ If you block unrated TV programs, be aware that the following types of programs may be blocked: programs broadcast from another country, emergency broadcasts, political programs, sports, news, public service announcements, religious programs and weather.	
Channel Block	Allows you to block channels regardless of program ratings. The password needs to be set up prior to blocking channels. The blocked channel can only be viewed by entering the correct password. To View a Blocked Channel Press ENT when tuned to the blocked channel then enter the password.	

Option	Description
External Input Block	Allows you to block external inputs regardless of program ratings. The password needs to be set up prior to blocking inputs. The blocked input can only be viewed by entering the correct password. To View a Blocked External Input Press ENT when tuned to the blocked input then enter the password.
Change Password	Select to change your password.

✍ You need your password for any future access into the Parental Lock settings. If you lose your password, see "Lost password." on page 36.

Select Country	U.S.A.	Select to use U.S.A. ratings (see below).
	Canada	Select to use Canadian ratings (see page 32).

US Models: Selecting Custom Parental Lock Rating Options

To select custom rating options for the U.S., select U.S.A. in the Select Country setting (see above).

Option	Description	
Movie Rating	G	All children and general audience.
	PG	Parental guidance suggested.
	PG-13	Parental guidance for children under 13.
	R	Restricted viewing, parental guidance is suggested for children under 17.
	NC-17 and X	No one 17 or under allowed.
TV Rating *Block programs by their rating, content or both*	Age-Based Ratings	
	TV-Y	All children.
	TV-Y7	Directed to children age 7 and older.
	TV-G	General audience.
	TV-PG	Parental guidance suggested.
	TV-14	Parents strongly cautioned.
	TV-MA	Mature audience only.
	Content-Based Ratings	
	FV	Fantasy violence.
	D	Suggestive dialogue.
	L	Strong language.
	S	Sexual situations.
	V	Violence.

✍ To ensure maximum blocking capability, set the Age-Based Ratings.

Canadian Models: Selecting Custom Parental Lock Rating Options

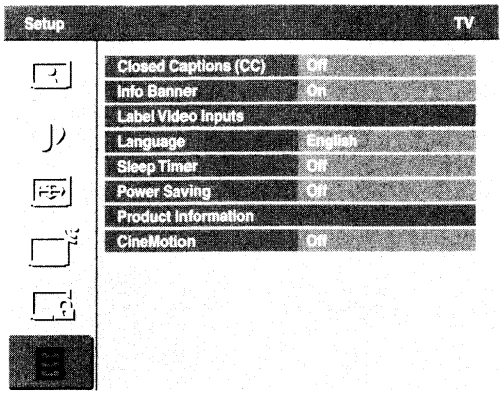
To select custom rating options for Canada, select Canada in the Select Country setting (see page 31).

Option	*Description*	
English Rating	C	All children.
	C8+	Children 8 years and older.
	G	General programming.
	PG	Parental guidance.
	14+	Viewers 14 and older.
	18+	Adult programming.
French Rating	G	General programming.
	8 ans+	Not recommended for young children.
	13 ans+	Not recommended for ages under 13.
	16 ans+	Not recommended for ages under 16.
	18 ans+	Programming restricted to adults.
U.S.A. Rating	See "US Models" on page 31 for details.	

Viewing Blocked Programs

You can view blocked programs by entering the password. Press ENT when tuned to a blocked program, then enter the password. This temporarily turns the parental control feature off. To reactivate the Parental Lock settings, turn off the TV. When the TV is turned on again, your Parental Lock settings are reactivated.

Using the Setup Settings



Option	Description
Closed Captions (CC)	Allows you to select from several closed caption modes (for programs that are broadcast with closed captioning).
	On — Closed Captions (CC) is turned on.
	Off — Closed Captions (CC) is turned off.
	Program — Allows you to set basic and advanced Closed Captions (CC) options. See "Programming Closed Captions (CC)" on page 34.
Info Banner	Set to On or Off. When On, displays the program name and the remaining time (if the broadcaster offers this service). Displays for a few seconds when the channel is changed or the DISPLAY button is pressed.
Label Video Inputs	Allows you to identify A/V equipment you connected to the TV, such as a VCR, DVD, etc. For example, if you have a DVD player connected to the COMPONENT IN jack, you can select the label DVD for the Component input. Then when you press INPUT to change inputs, the video label you assigned to that input appears on screen. **1** Press ↑/↓ to highlight the video input (Video 1-2, Component, HDMI, PC) to which you want to assign a label. Then press ⊕ to select the input. **2** Press ↑/↓ to highlight one of the displayed labels. Then press ⊕ to select the label. You can select from the following labels for each input: Video 1-2 — –, DVD, VCR, Blu-ray, Cable Box, Satellite, DVR, Game, Camcorder, Skip Component — –, DVD, VCR, Blu-ray, Cable Box, Satellite, DVR, Game, Camcorder, Skip HDMI — –, DVD, VCR, Blu-ray, Cable Box, Satellite, DVR, Game, Camcorder, Skip PC — –, Skip ✍ If you select Skip, your TV skips this input when you press the INPUT button. ✍ The Skip label is useful for inputs to which no equipment is connected.
Language	Select to display all on-screen settings in your language of choice: English, Español, Français.
Sleep Timer	Set the time in minutes (Off, 15 minutes, 30 minutes, 45 minutes, 60 minutes, 90 minutes, or 120 minutes) that you want the TV to remain on before shutting off automatically.

(Continued)

Option	Description
Power Saving	Select to reduce the power consumption by adjusting the backlight brightness. This also enhances the black level. Select from Off, Low and High.

✍ You can also access to Power Saving by pressing TOOLS button on the remote control.

Product Information	Select to display the equipment information of your TV.
CineMotion	Select Auto to automatically detect film content and apply a reverse 3-2 pulldown process. Moving pictures will appear cleaner and more natural looking. Select Off to disable the detection.

Programming Closed Captions (CC)

If you selected the Program option under Closed Captions (CC), you can change the following settings:

Option	Description		
Basic	Allows you to select basic analog (EIA-608) closed caption options.		
	CC1, CC2, CC3, CC4	Displays a printed version of the dialogue or sound effects of a program. (Should be set to CC1 for most programs.)	
	Text1, Text2, Text3, Text4	Displays network/station information presented using either half or the whole screen (if available).	
Digital CC	Allows you to set digital closed captioning to Basic (digital EIA-608) or Advanced (digital EIA-708).		
Advanced	Allows you to select advanced digital (EIA-708) closed caption options. Select from the available options.		
Advanced Settings	Allows you to make additional settings for digital (EIA-708) closed caption options. Select Text, and then select either As Broadcast or Custom.		
	Custom	Allows you to customize the following settings:	
		Character Style	Style 1-7
		Character Color	Color 1-8
		Character Size	Small, Standard, Large
		Character Opacity	Solid, Translucent, Transparent, Flashing
		Edge Color	Color 1-8
		Edge Type	None, Raised, Depressed, Uniform, Left Shadow, Right Shadow
		Background Color	Color 1-8
		Background Opacity	Solid, Translucent, Transparent, Flashing
		Window Color	Color 1-8
		Window Opacity	Solid, Translucent, Transparent, Flashing

Troubleshooting

If you have additional questions, service needs, or required technical assistance related to the use of your Sony TV, please visit our website or call one of the following numbers:
<http://www.sony.com/TVsupport>
1-800-222-SONY(7669) for US Residents
1-877-899-SONY(7669) for Canadian Residents

Problem	Possible Remedies
No picture.	
Cannot receive any channels.	❑ Make sure the power cord is connected securely. ❑ Turn on the power of the TV. ❑ Check antenna/cable connections.
TV is locked to one channel.	❑ Perform Auto Program to add receivable channels that are not presently in the TV's memory (page 29).
Cannot receive or select channels.	❑ Perform Auto Program to add receivable channels that are not presently in the TV's memory (page 29). ❑ To receive or select cable channels, make sure that Cable in the Channel settings is set to On (page 29). To receive or select UHF channels over an antenna, make sure Cable is set to Off.
The TV turns off automatically.	❑ Check Power Management in the PC Settings. (page 28)
No picture from some video sources.	❑ Check the connection between the optional video equipment and the TV. ❑ Press INPUT on the remote control (page 21). ❑ Press MENU on the remote control. Select your desired input from the Inputs list.
Poor picture.	
Double images or ghosts.	❑ Check antenna/cable connections. ❑ Check the antenna location and direction.
Only snow and noise appear on the screen.	❑ Check if the antenna is broken or bent. ❑ Check if the antenna has reached the end of its serviceable life. (3-5 years in normal use, 1-2 years at the seaside.)
Dotted lines or stripes.	❑ Keep the TV away from noise sources such as cars, motorcycles, or hair-dryers. ❑ If using 300 ohm twin lead, move the excess lead away from the TV or try using 75 ohm coaxial cable instead.
No color/Dark picture/Color is not correct/The picture is too bright.	❑ Press PICTURE to select the desired picture mode (page 20). ❑ Adjust the Picture Mode options in the Picture settings (page 25). ❑ If you set the Power Saving mode to Low or High, it will enhance the black level.
Noisy picture.	❑ Make sure that the antenna is connected using the 75-ohm coaxial cable (not supplied). ❑ Keep the antenna cable away from other connecting cords. ❑ To avoid TV interference, make sure to use an undamaged antenna cable.

(Continued)

Problem	*Possible Remedies*
No sound/Noisy sound	
Good picture, no sound.	❑ Check the volume control. ❑ Press MUTING or VOL + so that "Muting" disappears from the screen (page 20). ❑ Disconnect your headphones. ❑ Set Speaker to On in the Sound settings (page 26). If it is set to Off, sound is not output from the TV's speakers regardless of the TV's volume control.
Audio noise.	❑ Make sure that the antenna is connected using the 75-ohm coaxial cable (not supplied). ❑ Keep the antenna cable away from other connecting cords. ❑ To avoid TV interference, make sure to use an undamaged antenna cable.
Wide Mode changes automatically.	❑ The current Wide Mode setting is automatically replaced with the 4:3 Default setting when you change the channel or video input, if 4:3 Default in the Screen settings is set to other than Off. If you want to lock in the Wide Mode selected with the WIDE button, set 4:3 Default to Off in the Screen settings (page 27). ❑ Check the Auto Wide option in the Screen settings (page 27).
"Black box" on screen.	❑ You have selected a text option in the Setup setting and no text is available. (See pages 33 and 34 to reset Setup selections.) To turn off this feature, set the Closed Captions (CC) option to Off. If you were trying to select closed captioning, select CC1 instead of Text1-4.
Black bands appear at the top and bottom of the screen.	❑ Some wide screen programs are filmed in aspect ratios that are greater than 16:9 (this is especially common with theatrical releases). Your TV will show these programs with black bands at the top and bottom of the screen. For more details, check the documentation that came with your DVD (or contact your program provider).
Certain programs on DVD or other digital sources display a loss of detail, especially during fast-motion or dark scenes.	❑ The compression used by certain digital broadcasts and DVDs may cause your TV's screen to display less detail than usual, or cause artifacts (small blocks or dots, pixelations) to appear on your screen. This is due to your TV's large screen and ability to show very fine detail, and is normal for certain digitally recorded programs.
Remote control does not operate.	❑ Check the polarity of the batteries or replace the batteries. ❑ Point the remote control at the remote control sensor of the TV. ❑ Fluorescent lamps can interfere with your remote control operation; try turning off the fluorescent lamps. ❑ Keep the remote control sensor area clear from obstacles.
Some digital cable channels are not being displayed.	❑ Certain cable companies have limitations on the broadcast of digital cable channels. Check with your cable company for more information. ❑ The digital cable channel may be set to Hidden in the Show/Hide Channels setting (see page 29).
Lost password.	❑ Select the Parental Lock settings on the settings screen, then enter the following master password: 4357. The master password clears your previous password and allows you to enter a new password (page 31).
How to reset the TV to factory settings.	❑ Turn on the TV. While holding down the ▲ button on the remote control, press and hold down the MENU button on the TV until "reset" appears on the bottom left corner of the screen. (The TV will turn itself off, then back on again.) Release the ▲ button. WARNING: The Reset will clear all of your customized settings including Parental Lock setting.

Preparation for Wall Mounting

This TV can be installed on a wall by using a wall-mount bracket (sold separately). Before mounting the TV on a wall, the handle and stand must be removed from the TV.

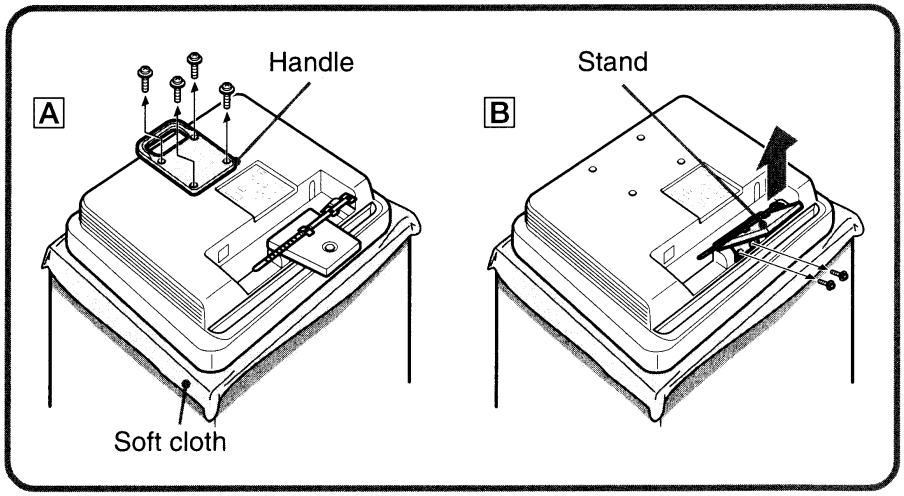
✍ Do not remove the stand for any reason other than to wall-mount the TV.

Sony Wall-Mount Bracket Model SU-WL100

Follow the simple steps below to remove the handle and stand:

1. Disconnect all the cables from the TV.
2. Cover a level and stable surface with a thick and soft cloth.
3. Gently lay the TV face down onto the cloth.
4. Remove the screws and detach the handle [see illustration A].
5. Remove the screws and detach the stand from the TV [see illustration B]. Be sure to hold the stand firmly while removing the last screw.
6. Do not remove any other screws from the TV.

For bracket installation, refer to the instruction guide provided by the Wall-Mount Bracket model for your TV. Sufficient expertise is required in installing this TV, especially to determine the strength of the wall for withstanding the TV's weight. **For product protection and safety reasons, Sony strongly recommends that you use the Wall-Mount Bracket model designed for your TV and the wall-mounting of your TV should be performed by Sony dealers or licensed contractors.**



✍ Be sure to store the removed screws, handle and stand in a safe place until you are ready to reattach the handle and stand. Keep the screws away from small children.

PC Input Signal Reference Chart

Resolution / Signals	Horizontal (Pixel)	×	Vertical (Line)	Horizontal frequency (kHz)	Vertical frequency (Hz)	Standard
VGA	**640**	×	**480**	**31.5**	**60**	**VGA**
	640	×	480	37.5	75	VESA
	720	×	400	31.5	70	VGA-T
SVGA	**800**	×	**600**	**37.9**	**60**	**VESA Guidelines**
	800	×	600	46.9	75	VESA
XGA	**1024**	×	**768**	**48.4**	**60**	**VESA Guidelines**
	1024	×	768	56.5	70	VESA
	1024	×	768	60.0	75	VESA
WXGA	**1280**	×	**768**	**47.4**	**60**	**VESA**
	1280	×	**768**	**47.8**	**60**	**VESA**
	1360	×	**768**	**47.7**	**60**	**VESA**

✍ This TV's PC Input does not support Sync on Green or Composite Sync.

✍ This TV's PC Input does not support interlaced signals.

✍ This TV's PC Input supports signals in the above chart with a 60Hz vertical frequency.

✍ For the best picture quality, it is recommended to use signals with a 60Hz vertical frequency from a personal computer. In plug and play, signals with 60Hz vertical frequency will be selected automatically.

Specifications

Television system:

NTSC	American TV standard
ATSC (8VSB terrestrial)	ATSC compliant 8VSB
QAM on cable	ANSI/SCTE 07 2000 (Does not include CableCARD functionality)

Channel coverage:	Analog	Digital
Terrestrial	2-69	2-69
Cable	1-135	1-135

Antenna: 75-ohm external terminal for VHF/UHF

Panel System:
LCD (Liquid Crystal Display) Panel

Display resolution (horizontal × vertical):
1,440 dots × 900 lines

VIDEO IN 1/2:
S VIDEO (4-pin mini DIN) (VIDEO 2 only):
Y: 1.0 Vp-p, 75 ohms unbalanced, sync negative
C: 0.286 Vp-p (Burst signal), 75 ohms
VIDEO: 1 Vp-p, 75 ohms unbalanced, sync negative
AUDIO: 500 mVrms (100% modulation)
Impedance: 47 kilohms

COMPONENT IN:
YPBPR (Component Video):
Y: 1.0 Vp-p, 75 ohms unbalanced, sync negative
PB: 0.7 Vp-p, 75 ohms
PR: 0.7 Vp-p, 75 ohms
Signal format: 480i, 480p, 720p, 1080i
AUDIO: 500 mVrms (100% modulation)
Impedance: 47 kilohms

HDMI IN:
HDMI: Video: 480i, 480p, 720p, 1080i, 1080p
Audio: Two channel linear PCM 32, 44.1 and 48 kHz, 16 bits
AUDIO: 500 mVrms (100% modulation)
Impedance: 47 kilohms

AUDIO OUT:
500 mVrms (100% modulation)

PC IN:
D-sub 15-pin, analog RGB, 0.7 Vp-p, 75 ohms, positive
See the PC Input Signal Reference Chart on page 38

PC AUDIO IN:
Stereo mini jack, 500 mVrms, 47 kilohm

Headphones:
Stereo mini jack
Impedance: 16 ohms

Power Requirement:
120 V-240 V AC, 50/60 Hz

Screen size (in inches):
19

Speaker/Full range (2):
(in mm) 40 × 100
(in inches) 1 5/8 × 4

Speaker output:
5 W + 5 W

Power consumption:
in use 50 W
in standby less than 1.0 W

Dimensions:
with stand and handle:
(in mm) 485 × 165 × 400
(in inches) 19 1/8 × 6 1/2 × 15 3/4
without stand and handle:
(in mm) 485 × 85 × 401
(in inches) 19 1/8 × 3 3/8 × 15 7/8

Mass:
with stand and handle:
(in kg) 7.8
(in lb.) 17 1/5
without stand and handle:
(in kg) 6.9
(in lb.) 15 1/5

Supplied accessories:
Remote control RM-YD025 (1)
Size AA batteries (2)
AC power cord (1)
Cable band (1)
Operating Instructions (1)
Quick Setup Guide (1)
Warranty Card (1)
Online Registration Card (U.S.A. only) (1)

Optional accessories:
Headphones plug adapter
Connecting cables
Support belt kit
Wall-Mount Bracket: SU-WL100

✍ Optional accessories availability depends on its stock.

Design and specifications are subject to change without notice.

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For Your Convenience

Please contact Sony directly if you:

- Have questions on the use of your television after reading your Operating Instruction manual and Quick Setup Guide
- Experience difficulty operating your television

Contact Sony Customer Support at:

http://www.sony.com/tvsupport

or to speak with a support representative:

United States
1-800-222-SONY (7669)

Canada
1-877-899-SONY (7669)

Sony will work to resolve your questions more quickly than your retailer or place of purchase.

Please Do Not Return the Product to the Store

http://www.sony.net/

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46.75C01.001

SONY

KDL-19M4000

Quick Setup Guide

For further information, see the Operating Instruction Manual supplied with the TV.
Please retain this guide for your future reference.

Upgrade your signal to high-definition programming to view the same picture quality at home as you've seen in the store. Contact your cable or satellite provider for upgrading to high-definition TV for stunning detail and richer sound.

For Your Convenience

Please contact Sony directly if you have questions on the use of your television after reading your Quick Setup Guide and Operating Instruction Manual.

Contact Sony Customer Support at:

http://www.sony.com/tvsupport

Or to speak with a support representative:

United States
1-800-222-SONY (7669)

Canada
1-877-899-SONY (7669)

Please Do Not Return the Product to the Store

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Making Audio/Video Connections

Your new TV includes various types of video inputs and two types of audio jacks; RCA type and digital audio (optical). Use the outputs/inputs that are available on your components that provide the best audio/video performances:

Connector type	Best Audio/Video Performance	Connector type
Digital Audio Out (Optical)	↑	HDMI (High-Definition Multimedia Interface)
Analog Audio		Component video
		S VIDEO
		Composite video

The connection diagrams shown below and on the reverse side are recommendations only; other possible solutions may exist. Connections that include an AV receiver can often be complex, so check your AV receiver's instruction manual for additional details.

See the "Cables Required" chart that appears with the diagram to determine which cables you'll need. Depending on the components you plan to connect, you may need to purchase extra cables.

Running Initial Setup

1 Select the language for the OSD (on screen display).

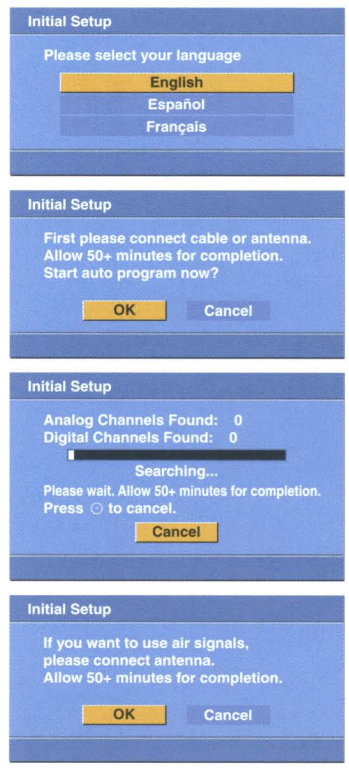
2 Connect either cable or antenna to your TV(you can connect both using an A-B RF switch). If you connect cable, the TV will scan cable channels. After this scanning, you can search antenna channels as well.

If you have cable and antenna connection available, please connect cable first.

If you are not using the VHF/UHF CABLE connection to TV, you can cancel the **Auto Program** by selecting **Cancel**.

3 Your TV will detect the type of signal connected and will start scanning for the channels.

4 If the **Initial Setup** programming found cable channels, you will be able to scan antenna channels as well. Connect the antenna (using an A-B RF switch, not supplied) and change the switch to antenna, then start **Auto Program** to search antenna channels.



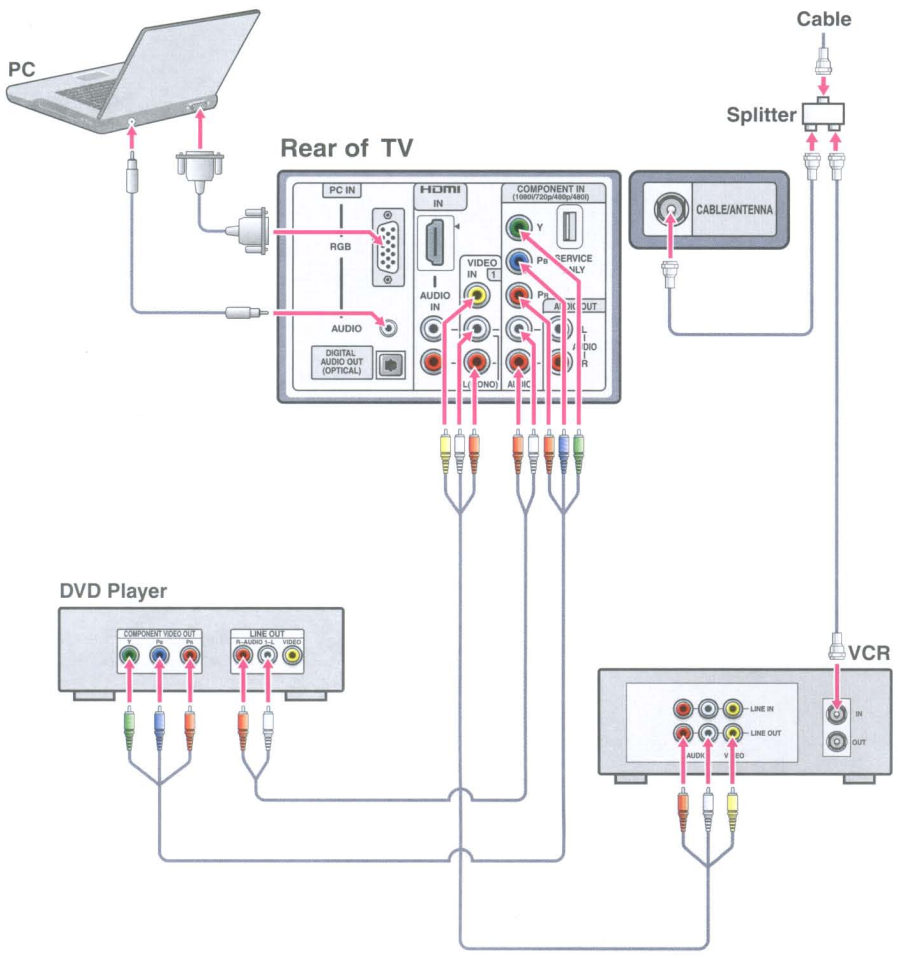
A

Use this diagram if you have;

Cable/Antenna, VCR, DVD Player, PC

Cables Required	
Splitter	1
Coaxial	3
Composite	1
Component	1
Audio	2
HD15-HD15	1

If your DVD player has an HDMI jack, use that instead of the video connections shown here.



B

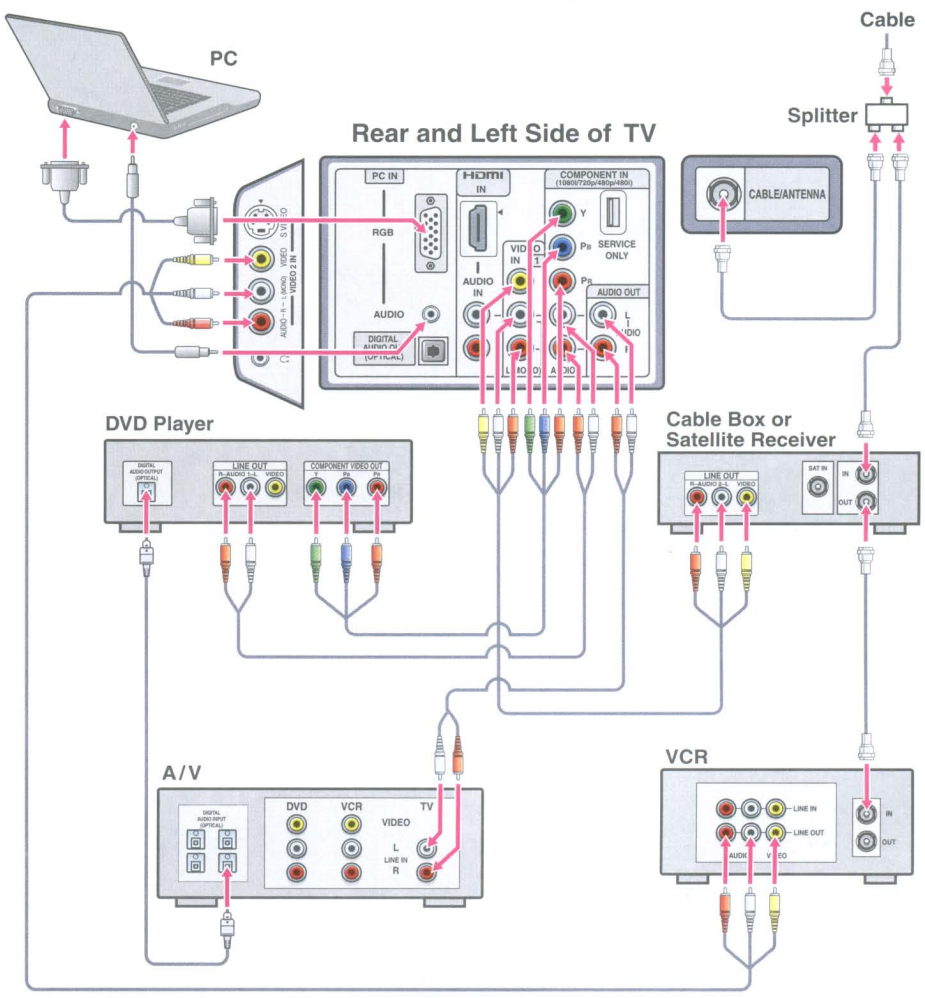
Use this diagram if you have;

Cable/Antenna, Cable Box, VCR, DVD Player, PC, AV Receiver, or Satellite Receiver

Cables Required	
Splitter	1
Coaxial	4
Composite	2
Component	1
Audio	3
HD15-HD15	1
Optical Audio	1

If your DVD player or satellite receiver has an HDMI jack, use that instead of the video connections shown here.

If you are not using a cable box or satellite receiver, connect your cable to the VCR's RF IN jack.



Continued ➡

C

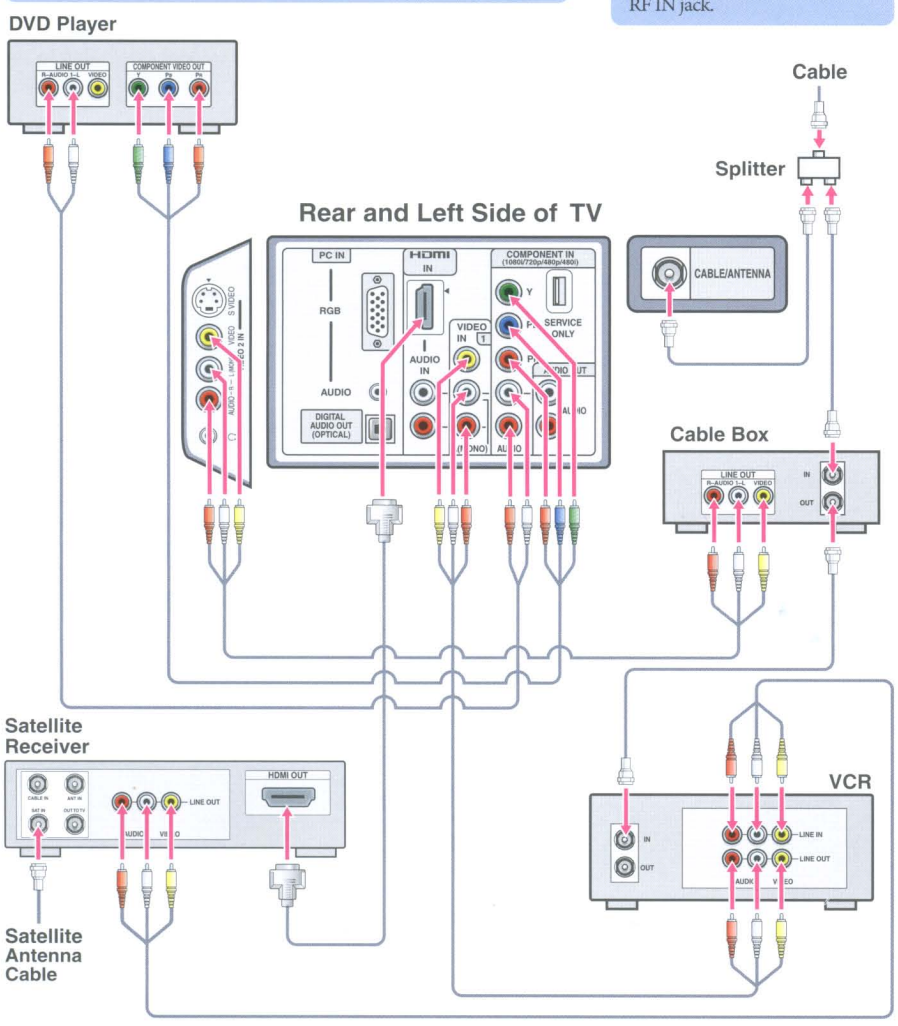
Use this diagram if you have; Cable/Antenna

Cable Box · VCR · DVD Player · Satellite Receiver

Cables Required	
Splitter	1
Coaxial	5
Composite	3
Component	1
Audio	1
HDMI	1

If your DVD player or satellite receiver has an HDMI jack, use that instead of the component/composite video connections.

If you are not using a cable box, connect your cable to the VCR's RF IN jack.



D

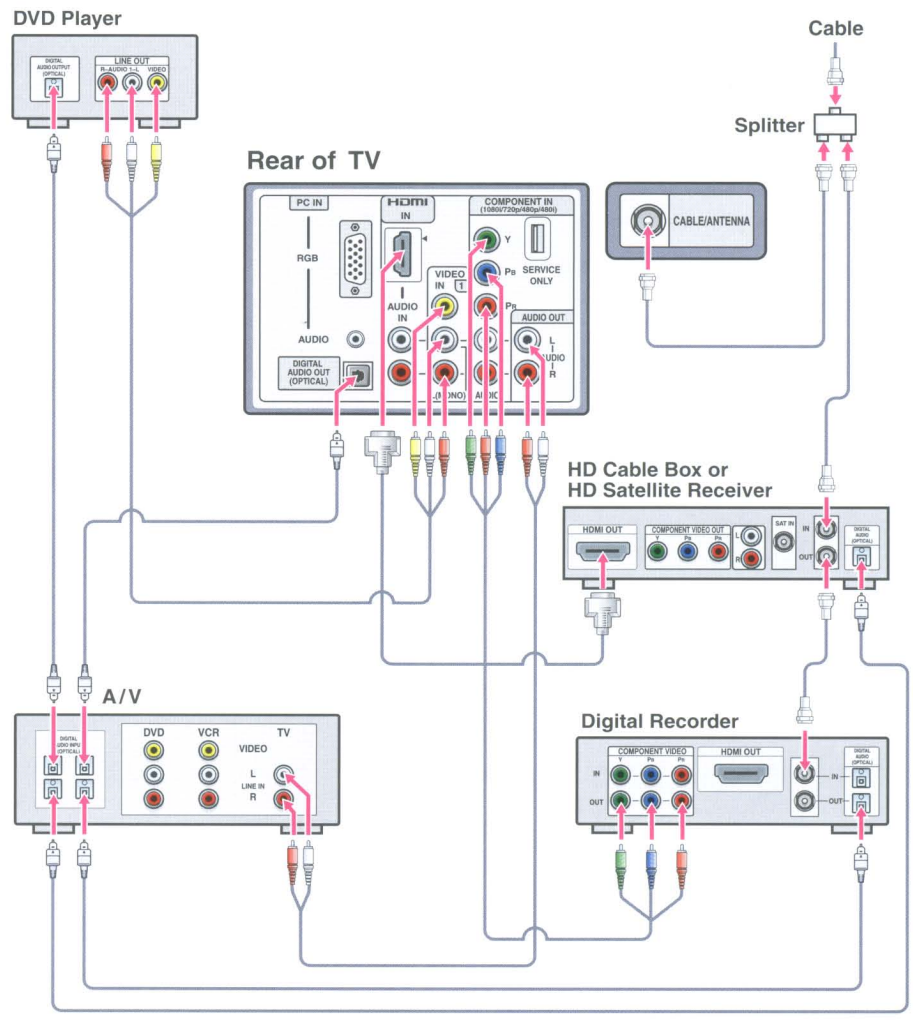
Use this diagram if you have; Cable/Antenna

HD Cable Box · DVD Player · AV Receiver · Digital Recorder

or

HD Sat Receiver

Cables Required	
Splitter	1
Coaxial	4
Composite	1
Component	1
Audio	1
HDMI	1
Optical Audio	4



E

Use this diagram if you have;

Cable/Antenna · HD Cable Box · VCR · DVD Player

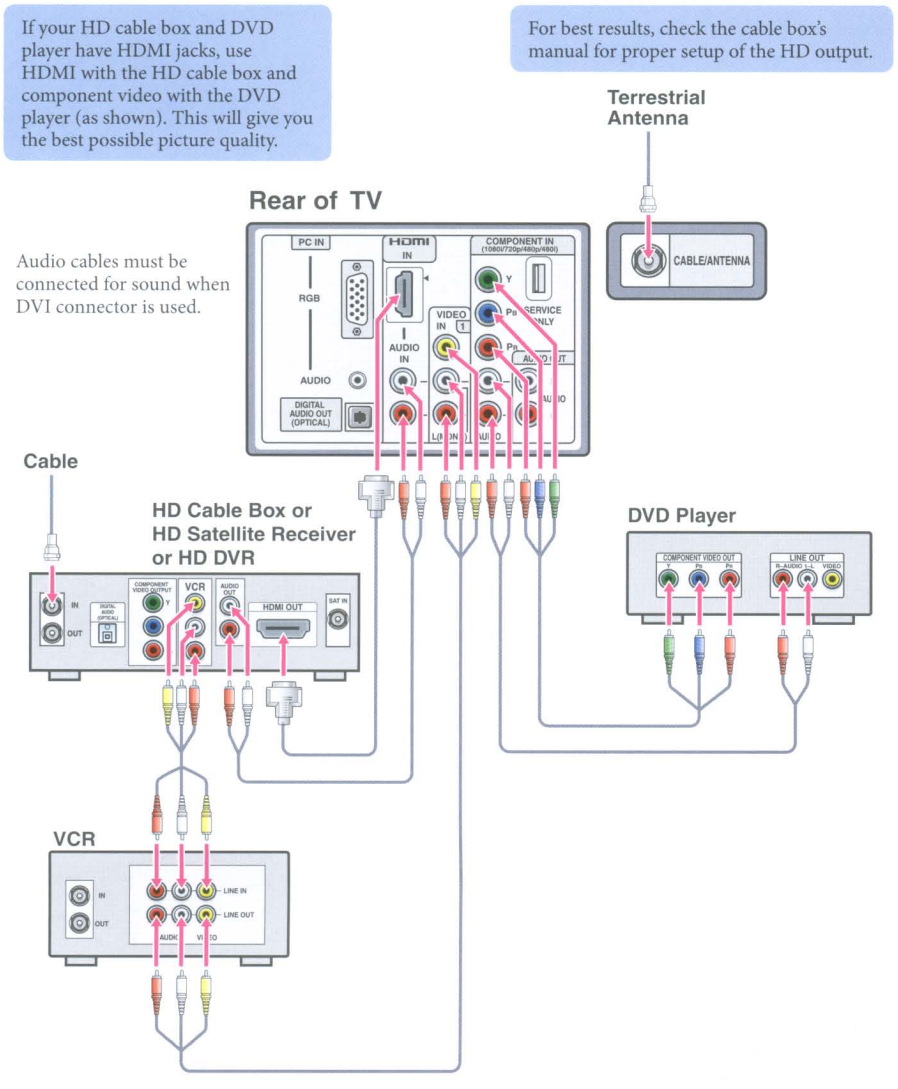
or

HD Sat Receiver or HD DVR

Cables Required	
Coaxial	2
Composite	2
Component	1
Audio	2
HDMI	1

If your HD cable box and DVD player have HDMI jacks, use HDMI with the HD cable box and component video with the DVD player (as shown). This will give you the best possible picture quality.

For best results, check the cable box's manual for proper setup of the HD output.



F

Use this diagram if you have;

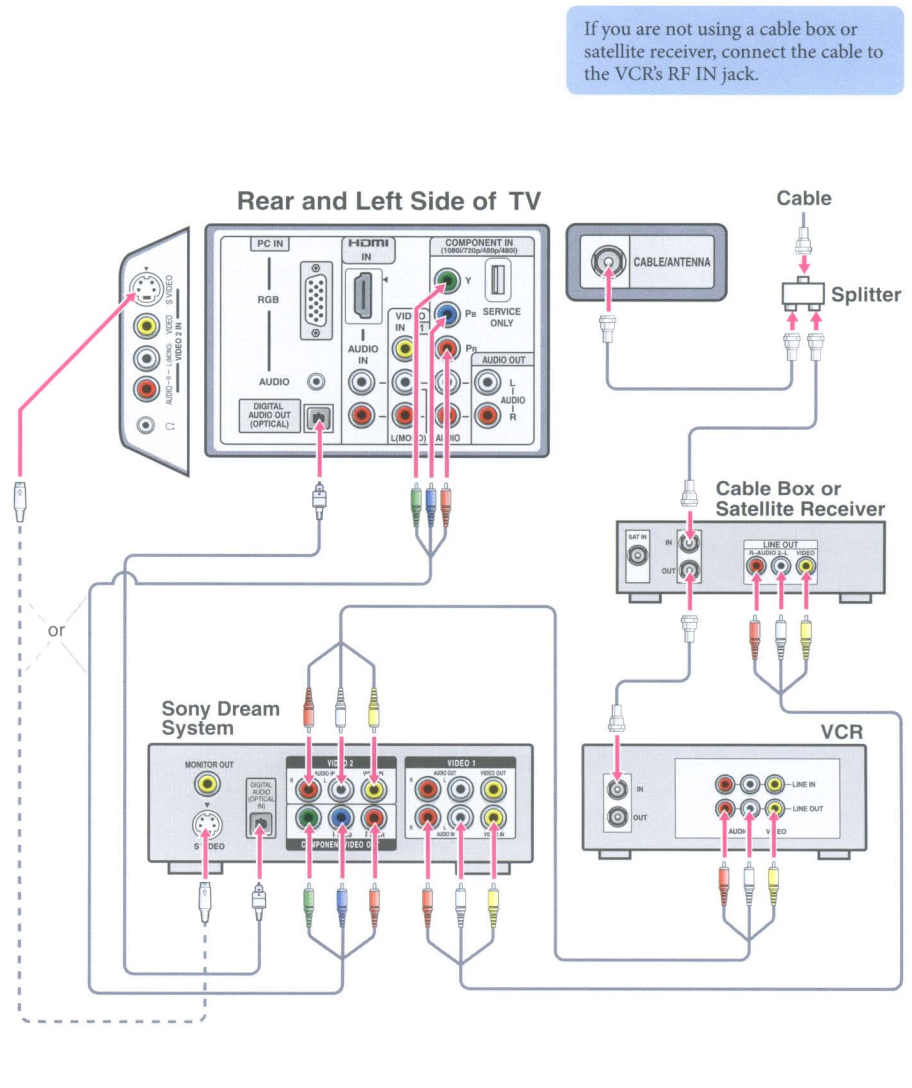
Cable/Antenna · Cable Box · VCR · Sony Dream System

or

Satellite Receiver

Cables Required	
Splitter	1
Coaxial	4
Composite	2
Component	1
Optical Audio	1

If you are not using a cable box or satellite receiver, connect the cable to the VCR's RF IN jack.



SONY

KDL-19M4000

English

Installing the Wall-Mount Bracket

To Customers

For product protection and safety reasons, Sony strongly recommends that wall-mounting of your TV be performed by Sony dealers or licensed contractors. Do not attempt to install it yourself.

Your KDL-19M4000 can be wall-mounted using the SU-WL100 Wall-Mount Bracket (sold separately). Please provide your licensed contractor with this installation supplement as well as the Instructions (supplied with the SU-WL100 Wall-Mount Bracket). Read these documents carefully for safety and proper installation.

To Sony Dealers and Contractors

Provide full attention to safety during the installation, periodic maintenance and examination of this product.

Français

Installation du support de fixation murale

À l'attention des clients

Par souci de protection du produit et pour des raisons de sécurité, Sony recommande vivement que l'installation du support de fixation murale du téléviseur soit confiée à un revendeur Sony ou à un installateur agréé. Ne pas tenter d'effectuer l'installation soi-même.

Le KDL-19M4000 peut être fixé au mur à l'aide du support de fixation murale SU-WL100 (vendu séparément). Veuillez fournir à l'installateur agréé ce supplément ainsi que le mode d'emploi (accompagnant le support de fixation murale SU-WL100). Lire attentivement ces documents qui concernent la sécurité et l'installation correcte du support.

À l'intention des revendeurs Sony et des installateurs

Accorder une attention particulière à la sécurité lors de l'installation, de l'entretien périodique et de la vérification de ce produit.

Español

Instalación del soporte de montaje mural

Para los clientes

Por razones de protección del producto y de seguridad, Sony recomienda que el montaje mural del televisor sea realizado por un distribuidor o contratista autorizado de Sony. No intente instalarlo usted mismo.

Puede instalarse el modelo KDL-19M4000 en una pared mediante el soporte de montaje mural SU-WL100 (se vende por separado). Muestre al contratista autorizado este suplemento para la instalación, así como las instrucciones (suministradas con el soporte de montaje mural SU-WL100). Lea atentamente estos documentos para realizar la instalación correctamente y de manera segura.

Para distribuidores y contratistas de Sony

Ponga especial atención a la seguridad durante la instalación, mantenimiento periódico y comprobación de este producto.

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English

Installing the TV on a wall

The TV can be installed on a wall by attaching a Wall-Mount Bracket (sold separately).
Verify your TV's model number and be sure to use the bracket specified for your model only. Refer to the Steps on this leaflet along with the Instructions supplied with the SU-WL100 Wall-Mount Bracket, to properly carry out the installation.

For product protection and safety reasons, Sony strongly recommends that you use the Wall-Mount Bracket model designed for your TV and that the wall-mounting of your TV is performed by Sony dealers or licensed contractors.

Sufficient expertise is required in installing this product, especially to determine the strength of the wall for withstanding the TV's weight. Be sure to entrust the attachment of this product to the wall to Sony dealers or licensed contractors and pay adequate attention to safety during the installation. Sony is not liable for any damage or injury caused by mishandling or improper installation.

Español

Instalación del televisor en una pared

Puede instalar el televisor en una pared sujetándolo con el soporte de montaje mural (se vende por separado). Compruebe el número de modelo del televisor y asegúrese de utilizar solamente el soporte especificado para dicho modelo. Consulte los pasos de este folleto, junto con el manual de instrucciones suministrado con el soporte de montaje mural SU-WL100, para realizar la instalación correctamente.

Para proteger el producto y por motivos de seguridad, Sony le recomienda que utilice el modelo de Soporte de montaje mural diseñado para su televisor y que el montaje mural de su televisor sea realizado por un distribuidor de Sony o por un contratista con licencia.

Se requiere bastante experiencia para instalar este producto, especialmente para determinar la resistencia de la pared para soportar el peso del televisor. Asegúrese de contratar la instalación de este producto a la pared a un distribuidor o contratista autorizado de Sony y de prestar especial atención a la seguridad durante la instalación. Sony no se hace responsable de los daños materiales o personales provocados por una manipulación o instalación incorrecta.

Français

Fixation du téléviseur au mur

Le téléviseur peut être fixé au mur à l'aide du support de fixation murale (vendu séparément).
Vérifier la référence du modèle du téléviseur et s'assurer à utiliser uniquement le support spécifié pour ce modèle. Consulter les étapes de ce dépliant ainsi que le mode d'emploi accompagnant le support de fixation murale SU-WL100 pour effectuer correctement l'installation.

Pour des raisons de sécurité et de protection du téléviseur, Sony recommande fortement que vous utilisiez le modèle de support de fixation murale conçu pour votre appareil, et que l'installation soit effectuée par un détaillant Sony ou un représentant agréé.

Une certaine expertise est requise pour installer ce produit, notamment pour déterminer la résistance du mur par rapport au poids du téléviseur. S'assurer de confier la fixation de ce produit au mur à des revendeurs Sony ou à des installateurs agréés et d'être particulièrement vigilant en matière de sécurité au cours de l'installation. Sony ne peut être tenu responsable de tout dommage ou blessure résultant d'une manipulation ou d'une installation incorrecte.

46.75C06.001

English

Step 1: Checking the parts required for the installation

Open the Wall-Mount Bracket package and check the contents for all required parts along with the Instructions.

Step 2: Adjusting the position of the holders of the Base Plate

Refer to the Instructions for SU-WL100.

Step 3: Deciding on the installation location

Decide where you want to install your TV. See reverse side of this manual for the TV installation dimensions and determine the location.

Refer to the Instructions for SU-WL100.

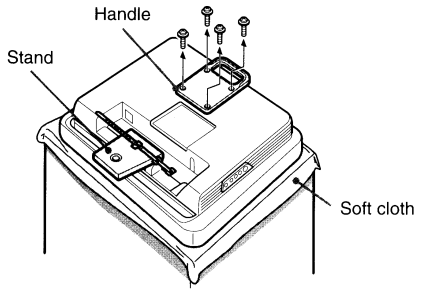
Step 4: Installing the Base Plate on the wall

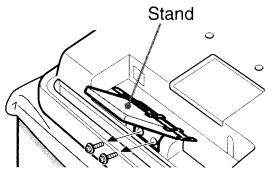
Refer to the Instructions for SU-WL100.

Step 5: Preparing for the installation of the TV

Before detaching the Stand, disconnect all the cables from the TV.

1 Detach the handle first by removing the 4 screws. Detach the stand from the TV finally by removing the 2 screws.





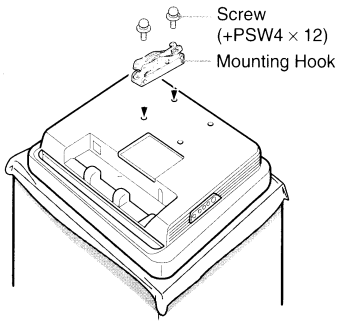
Notes

- Lay the display face down on a stable and level surface.
- To prevent damaging the surface of the LCD display, place the TV on a soft cloth.

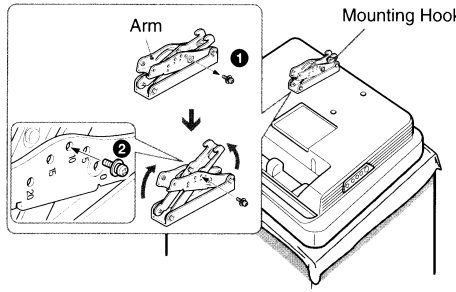
When using an electric screwdriver to tighten the screws, the torque must be approx. 1.5 N·m {15 kgf·cm}.
Do not lift the Mounting Hook before the screws (two screws each for left/right) are secured.

2 Align the holes on the left Mounting Hook with the corresponding holes on the rear of the TV.

Secure them to the TV using two screws (supplied with SU-WL100).

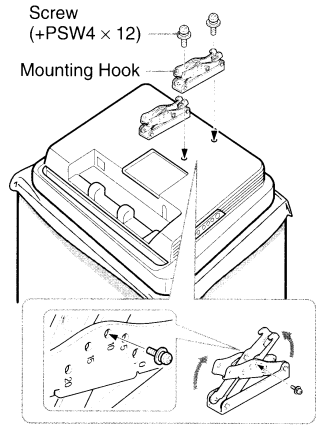


3 Adjust the angle of the Mounting Hook.



4 Align the holes on the right Mounting Hook with the corresponding holes on the rear of the TV.

Secure them to the TV using two screws (supplied with SU-WL100).



Step 6: Installing the TV on the Base Plate

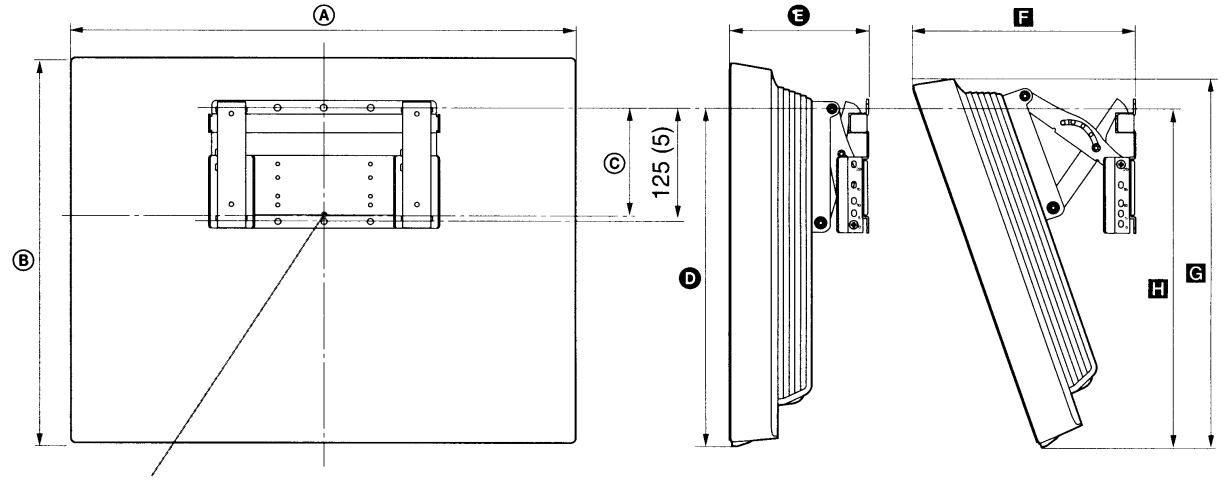
Refer to the Instructions for SU-WL100.

1 Connect the AC power cord and cables to the corresponding jacks on the rear of the TV.

For details on the cable connection, refer to the Operating Instructions for your TV.

2 Install the TV onto the Base Plate.

English Installation dimensions table*1 / Español Table de las dimensiones de instalación*1
Français Tableau des dimensions pour l'installation*1



Screen center when installed on the wall/
Centre de l'écran lorsqu'il est installé au mur/
Parte central de la pantalla cuando se instala en la pared

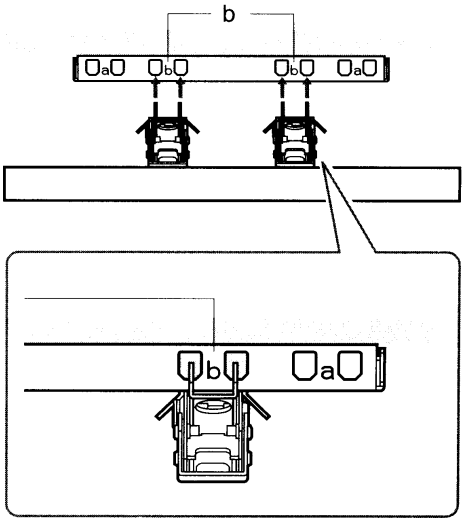
Unit: mm (inches)/Unité : mm (pouces)/Unidad: mm (pulgadas)

Display model/ Modèle d'écran/ Modelo de pantalla	Display dimensions/ Dimensions de l'écran/ Dimensiones de la pantalla		Screen center dimension/ Dimension au centre de l'écran/ Dimensión del centro de la pantalla	Length for each mounting angle/ Longueur de chaque angle de montage/ Longitud de cada ángulo de montaje					Weight/ Poids/ Peso (×4)*2
				Angle/Angle/Ángulo(0°)		Angle/Angle/Ángulo(20°)			
	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	Ⓕ	Ⓖ	Ⓗ	
KDL-19M4000	485 (19 1/8)	401 (15 7/8)	117 (4 5/8)	356 (14 1/8)	145 (5 3/4)	228 (9)	385 (15 1/4)	353 (14)	6.9 kg (15 lb 1/5 oz)

*1 Installation dimensions may differ according to how the display is installed./
*1 Les dimensions lors de l'installation peuvent être différentes selon la façon dont l'écran est posé./
*1 Es posible que las dimensiones de instalación varíen en función de cómo se instale la pantalla.
*2 The wall must be strong enough to support at least four times the weight of the display that you are installing./
*2 Le mur doit être suffisamment solide pour supporter au moins quatre fois le poids de l'écran que vous installez./
*2 La pared debe ser suficientemente resistente para soportar como mínimo cuatro veces el peso de la pantalla que está instalando.

English Hook locations diagram / Español Diagrama de las ubicaciones de los ganchos
Français Schéma des emplacements des crochets

Install the TV onto the location "b" of the Base Plate./
Installer le téléviseur à l'emplacement « b » de la plaque de base./
Instale el televisor en la ubicación "b" de la plataforma base.



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Thank you.

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4-103-056-11(1)
4103056111

SONY®

LCD Television

LIMITED WARRANTY (US ONLY)

SONY ELECTRONICS INC. ("SONY") warrants this product against defects in material or workmanship for the time periods and as set forth below. Pursuant to this Limited Warranty, SONY will, at its option, (i) repair the product using new or refurbished parts or (ii) replace the product with a new or refurbished product. For purposes of this Limited Warranty, "refurbished" means a product or part that has been returned to its original specifications. In the event of a defect, these are your exclusive remedies.

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